

Contaminant Screening Study Libby Asbestos Site, Operable Unit 4 Libby, Montana

Draft Final Summary Report for City of Libby Alley Investigation

February 2005



Summary Report

Response Action Contract for Remedial, Enforcement Oversight, and Non-Time Critical Removal Activities at Sites of Release or Threatened Release of Hazardous Substances in EPA Region 8

U.S. EPA Contract No. 68-W5-0022

Draft Final Summary Report City of Libby Alley Investigation, Contaminant Screening Study, Libby Asbestos Site, Operable Unit 4

February 3, 2005

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Work Assignment No.: 137-RIRI-08BC

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Acronyms

CSS contaminant screening study

EPA U. S. Environmental Protection Agency

LA Libby amphibole

PLM polarized light microscopy

QA/QC quality assurance/quality control

QC quality control

SAP sampling and analysis plan SRC Syracuse Research Corporation

VE visual area estimation

% percent



Section 1 Introduction

The purpose of this report is to summarize the field activities for the City of Libby alley investigation that took place between October 15 and October 24, 2003.

As part of the Libby asbestos site remedial investigation, CDM Federal Programs Corporation (CDM) conducted an investigation of the alley ways within the City of Libby to determine the nature and extent of Libby amphibole (LA) asbestos contamination. All investigation activities were conducted in accordance with the Final Sampling and Analysis Plan (SAP), Remedial Investigation (CDM Federal Programs Corporation [CDM] 2003a) and Final Sampling and Analysis Plan Addendum for the City of Libby Alley Investigation (SAP Addendum) (CDM 2003b).

This summary report presents visual inspection results, site-specific surface soil sampling data, and verbal interview information collected as part of this investigation.



Section 2 Field Activities

The Libby alley investigation consisted of a visual inspection for vermiculite, surface soil sampling, and verbal interview with the city supervisor. Unless noted in Section 3.1 (Deviations from the SAP Addendum), all field documentation and sample collection procedures provided or referenced in the SAP Addendum were followed. The following sections summarize the alley investigation field activities.

2.1 Visual Inspection

The CDM field team inspected 128 alley ways within the City of Libby for the presence or absence of vermiculite (Figure 1). All inspection data was recorded on field sample data sheets and in field log notes. The surface material (e.g., asphalt, gravel, sand, soil, etc.) of each alley was also noted in the field log notes. Copies of the log notes are provided in Appendix A.

The alleys inspected by the CDM field team are illustrated on Figure 1 and identified on Table 1. Three additional alleys (126, 127, and 128) not mentioned in the SAP Addendum were identified and inspected during the investigation, and are included in this report. Field personnel observed vermiculite in 23 percent (%) of Libby alleys at the time of inspection. The following information summarizes the observations made by the field team:

- vermiculite was observed in soils adjacent to 3 paved alleys
- vermiculite was observed in the surface material of or in soils adjacent to 22 nonpaved alleys
- vermiculite was not observed in 27 paved alleys
- vermiculite was not observed in 69 non-paved alleys

It should be noted that for all 25 alley ways containing visible vermiculite, an adjacent property to the alley way also contained visible vermiculite. That is, the vermiculite observed in the alley way appeared to have migrated from an adjacent property that contained vermiculite. It is not suspected that vermiculite was used as a base material or surface material for alley construction.



2.3 Soil Sampling

Soil samples were collected, prepared, and analyzed in accordance with procedures presented or referenced in the SAP Addendum, including completion of soil field sample data sheets (Appendix B). Soil samples were not collected from paved alleys. In total, 91 surface soil samples were collected from the 0-6 inch interval during this investigation (Figure 1).

As applicable to all soil samples collected under the Libby remedial investigation program, soil samples were analyzed for LA asbestos using two techniques: polarized light microscopy (PLM) visual area estimation (VE) and the PLM gravimetric method (Syracuse Research Corporation [SRC] 2003). The U.S. Environmental Protection Agency (EPA) is in the process of evaluating the accuracy and replicatability of each of these methods. However, based on EPA's performance evaluation study to date, PLM-VE results are currently being used to make project remediation decisions. For the purposes of this report, only PLM-VE results are presented.

All sample results were nondetect for LA (by PLM-VE) with the exception of CS-17979, which was trace (less than 0.2 percent) for LA. Sample CS-17979 was collected from alley 47 (see Figure 1); no vermiculite was observed in this alley. Surface soil sample results are presented in Table 2.

2.3 Verbal Interview

In order to document LA contamination concerns and obtain historical information about the alleys, a verbal interview was conducted with Dan Thede, the city supervisor, on February 2, 2005. This information was recorded on an Information Field Form and in a field logbook. Copies of these records are provided in Appendix C. Details of the interview are as follows:

- Libby alley construction occurred during the late 1920s or early 1930s.
- Vermiculite was not brought in as a subbase or surfacing material during construction.
- Past or present, the city has not used vermiculite or material containing vermiculite
 to fill ruts. Fill material is currently obtained from the city pit located adjacent to
 the Plum Creek pit on Pipe Creek Road.
- Future alley way improvement activities (i.e., paving) are anticipated to be performed by the city. These activities may occur in conjunction with the downtown revitalization project and would involve alleys in the vicinity of Mineral Avenue.
- Mr. Thede has not received any phone calls from residents voicing concern about vermiculite in Libby alley ways.



Section 3 Quality Assurance/Quality Control

CDM has established a formal quality assurance program to ensure consistently high quality project deliverables under its Response Action Contract with EPA. For work conducted by CDM in Libby, quality assurance/quality control (QA/QC) measures include the collection of quality control (QC) samples (such as soil duplicate samples and equipment blanks), implementation of a laboratory quality assurance program, review of project reports by a CDM-approved quality assurance staff member, and an auditing component to assess the effectiveness of the quality assurance program. The following sections describe deviations from the SAP Addendum and the implications of those deviations on project or data quality objectives.

3.1 Deviations from the Sampling and Analysis Plan Addendum

All requirements detailed in the SAP Addendum were met with minimal exceptions. Noted deviations are as follows:

Deviation #1

One hundred twenty-five alleys were originally identified in the SAP Addendum as requiring inspection. However, during the field event, seven of these were determined to be part of private properties (e.g., driveways) that were investigated previously, or areas that are not currently being used as alley ways (e.g., areas that have been paved over for parking). These areas were not included in this investigation.

Implication of deviation: This deviation has no negative effect on project/data quality objectives.

Deviation #2

In addition to the field logbook requirement, the verbal interview was recorded on an Information Field Form. Use of the form is consistent with other contaminant screening study interviews conducted in Libby.

Implication of deviation: This deviation has a positive effect on retrievability of the verbal interview information since the form allows for permanent storage of the interview data in the project database.

Deviation #3

At the time of this report, air sample collection has not been completed. Based on information provided in this report, the alleys identified for each of the four categories as described in the SAP Addendum will be finalized. Once they are selected, air samples will be collected when weather permits.



Implication of deviation: Levels of LA in dust disturbed by typical alley traffic remains unknown. Once air samples are collected, CDM will evaluate the achievement of data quality objectives as outlined in the Phase 1 Sampling and Quality Assurance Project Plan (EPA 2000) for air sampling.

Deviation #4

A duplicate soil sample collection frequency of 4.6% was achieved versus the 5% requirement.

Implication of deviation: This deviation has no negative impact on overall project data quality since: 1) overall QC sample collection frequency for contaminant screening study (CSS) soil sampling will be evaluated in a separate QA/QC trend analysis report (CDM – in progress); and 2) results are 100% comparable between the parent samples and duplicates, indicating there are no precision issues with the field team's sample collection practices.

Deviation #5

An equipment blank was not collected on October 15, 2003.

Implication of deviation: No QC sample existed on October 15, 2003 to verify the effectiveness of decontamination procedures. However, LA was not detected in any field samples collected on October 15, 2003, nor was it detected in any of the equipment blanks during the investigation. Therefore, this deviation appears to have had no negative impact on the overall project data quality.

3.2 Achievement of Data Quality Objectives

Of the five deviations described above, one has a positive impact on data quality; three have no negative effect on data quality; and one is yet to be evaluated.

3.3 Data Validation and Reporting

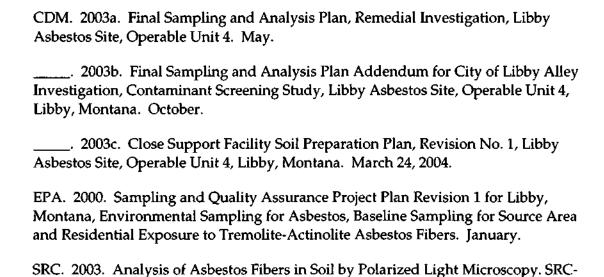
None of the analytical data contained in this report was further validated beyond that performed by the laboratory as part of their QA/QC program. Therefore, it is assumed that the raw data are useable for their intended purpose, which is to determine the extent of LA asbestos contamination in alley ways within the City of Libby.

As stated in the SAP Addendum, following approval of this report, CDM will complete a letter to City of Libby detailing the results of the investigation and additional information regarding any necessary further activities. Air sampling results will be provided in a subsequent letter upon completion of that component of the investigation.



Section 4 References

LIBBY-03 (Rev. 0). March 3, 2003.





Figure



Color Photo(s)

The following pages contain color that does not appear in the scanned images.

To view the actual images, please contact the Superfund Records Center at (303) 312-6473.



- Non Detect
- Trace Libby Amphibole (<0.2%)

Alley Not Paved, Visible Vermiculite (22) Alley Not Paved, No Visible Vermiculite (69)

Alley Paved, Visible Vermiculite (3) Alley Paved, No Visible Vermiculite (27)

Alley Not Present (7)



470 940

1,880

Figure 1
City of Libby
Alley Visual Inspection
and Surface Soil Sample Results
February 2005
Libby, Montana

Tables



Table 1 City of Libby Alley Investigation Visual Inspection Summary

						<u></u>
	Not Paved,	Not F	aved,	Paved,	Paved,	
	visible ·	no v	isible	visible	no visible	Alley
	vermiculite	verm	iculite	vermiculite	vermiculte	not present
	(22 alleys)	(69 a	lleys)	(3 alleys)	(27 alleys)	(7 alleys)
•	11	1	65	58	17	3
	46	2	66	73	18	4
	48	5	67	74	20	22
	50	6	68		25	34
	51	7	69		26	35
	59	8	70		27	77
	63	9	75		28	93
	71	10	79		33	
	78	12	85		3 6	
	80	13	87		37	
	82	14	88		38	
	83	15	89		39	
	84	16	91		40	
	86	19	96		41	
	90	21	97		45	
	9 5	23	100		57	
	109	24	102		72	
	110	29	103		76	
	111	30	104		81	
	116	31	105		92	
	117	32	106		94	
	124	42	108		98	
		43	113		99	
		44	114		101	
		47	115		107	
		49	119		112	
		52	120		118	
		53	121			
		54	122			
		55	123			
		56	125			
		60	126			
		61	127			
		62	128			
		64				

Notes:

Alley numbers correspond to those shown on Figure 1

Paved alleys not sampled, per the Sampling and Analysis Plan Addendum (CDM 2003b)

Table 2 City of Libby Alley Investigation Surface Soil Sample Results

_			Sample	Location Description	Media						
Sample ID	Parent ID	Address	Group	(Sub Location)	Type	<u>Matrix</u>	Category	Sample Date	Method	LA Bin	LA (%
CS-17947-FG1		City of Libby Alley	Alley	Alley 1	Soil-Like	Surface soil	Field Sample	10/15/2003	PLM-VE	Α	ND
CS-17948-FG1		City of Libby Alley	Alley	Alley 2	Soil-Like	Surface soil	Field Sample	10/15/2003	PLM-VE	Â	ND
S-17949-FG1		City of Libby Alley	Alley	Alley 5	Soil-Like	Surface soil	Field Sample	10/15/2003	PLM-VE	Α	ND
CS-17950-FG1		City of Libby Alley	Alley	Alley 6	Soil-Like	Surface soil	Field Sample	10/15/2003	PLM-VE	Α	ND
S-17951-FG1		City of Libby Alley	Alley	Alley 7	Soil-Like	Surface soil	Field Sample	10/15/2003	PLM-VE	Α	ND
CS-17952-FG	·	City of Libby Alley	Alley	Alley 8	Soil-Like	Surface soil	Field Sample	10/16/2003	PLM-VE	Α	ND
S-17953-FG		City of Libby Alley	Alley	Alley 126	Soil-Like	Surface soil	Field Sample	10/16/2003	PLM-VE	A	ND
S-17954-FG		City of Libby Alley	Alley	Alley 9	Soil-Like	Surface soil	Field Sample	10/16/2003	PLM-VE	A	ND
CS-17955-FG		City of Libby Alley	Alley	Alley 10	Soil-Like	Surface soil	Field Sample	10/16/2003	PLM-VE	A	ND
CS-17956-FG		City of Libby Alley	Alley	Alley 11	Soil-Like	Surface soil	Field Sample	10/16/2003	PLM-VE	A	ND
CS-17957-FG		City of Libby Alley	Alley	Alley 12	Soil-Like	Surface soil	Field Sample	10/16/2003	PLM-VE	Ä	ND
CS-17958-FG		City of Libby Alley	Alley	Alley 13	Soil-Like	Surface soil	Field Sample	10/16/2003	PLM-VE	Ā	ND
CS-17959-FG		City of Libby Alley	Alley	Alley 14	Soil-Like	Surface soil	Field Sample	10/16/2003	PLM-VE	A	ND
CS-17960-FG1		City of Libby Alley	Alley	Alley 15	Soil-Like	Surface soil	Field Sample	10/16/2003	PLM-VE	A	ND
CS-17961-FG	CS-17960	City of Libby Alley	Alley	Alley 15	Soil-Like	Surface soil	Field Duplicate	10/16/2003	PLM-VE	A	ND
CS-17962-FG		City of Libby Alley	Alley	Alley 16	Soil-Like	Surface soil	Field Sample	10/16/2003	PLM-VE	Α	ND
CS-17963-FG		City of Libby Alley	Alley	Alley 19	Soil-Like	Surface soil	Field Sample	10/16/2003	PLM-VE	A	ND
S-17964-FG		City of Libby Alley	Alley	Alley 21	Soil-Like	Surface soil	Field Sample	10/16/2003	PLM-VE	Α	ND
S-17965-FG		City of Libby Alley	Alley	Alley 127	Soil-Like	Surface soil	Field Sample	10/16/2003	PLM-VE	A	ND
S-17966-FG		City of Libby Alley	Alley	Alley 128	Soil-Like	Surface soil	Field Sample	10/16/2003	PLM-VE	Α	ND
S-17968-FG		City of Libby Alley	Alley	Alley 23	Soil-Like	Surface soil	Field Sample	10/17/2003	PLM-VE	Ä	ND
S-17969-FG		City of Libby Alley	Alley	Alley 24	Soil-Like	Surface soil	Field Sample	10/17/2003	PLM-VE	A	ND
S-17970-FG		City of Libby Alley	Alley	Alley 29	Soil-Like	Surface soil	Field Sample	10/17/2003	PLM-VE	A	ND
S-17971-FG		City of Libby Alley	Alley	Alley 30	Soil-Like	Surface soil	Field Sample	10/17/2003	PLM-VE	A	ND
CS-17972-FG	·-···	City of Libby Alley	Alley	Alley 31	Soil-Like	Surface soil	Field Sample	10/17/2003	PLM-VE	A	ND
CS-17973-FG		City of Libby Alley	Alley	Alley 32	Soil-Like	Surface soil	Field Sample	10/17/2003	PLM-VE	A	ND
CS-17974-FG		City of Libby Alley	Alley	Alley 42	Soil-Like	Surface soil	Field Sample	10/17/2003	PLM-VE	A	ND
CS-17975-FG	-	City of Libby Alley	Alley	Alley 43	Soil-Like	Surface soil	Field Sample	10/17/2003	PLM-VE	Ā	ND
S-17976-FG		City of Libby Alley	Alley	Alley 44	Soil-Like	Surface soil	Field Sample	10/17/2003	PLM-VE	A	ND
S-17978-FG		City of Libby Alley	Alley	Alley 46	Soil-Like	Surface soil	Field Sample	10/18/2003	PLM-VE	A	ND
CS-17979-FG		City of Libby Alley	Alley	Alley 47	Soil-Like	Surface soil	Field Sample	10/18/2003	PLM-VE	B1	TR
CS-17980-FG		City of Libby Alley	Alley	Alley 48	Soil-Like	Surface soil	Field Sample	10/18/2003	PLM-VE	A	ND
S-17981-FG		City of Libby Alley	Alley	Alley 49	Soil-Like	Surface soil	Field Sample	10/18/2003	PLM-VE	Ā	ND
S-17982-FG		City of Libby Alley	Alley	Alley 50	Soil-Like	Surface soil	Field Sample	10/18/2003	PLM-VE	A	ND
CS-17983-FG		City of Libby Alley	Alley	Alley 51	Soil-Like	Surface soil	Field Sample	10/18/2003	PLM-VE	A	ND
CS-17984-FG	· 	City of Libby Alley	Alley	Alley 53	Soil-Like	Surface soil	Field Sample	10/18/2003	PLM-VE	A	ND
CS-17985-FG		City of Libby Alley	Alley	Alley 52	Soil-Like	Surface soil	Field Sample	10/18/2003	PLM-VE	A	ND
CS-17987-FG		City of Libby Alley	Alley	Alley 55	Soil-Like	Surface soil	Field Sample	10/20/2003	PLM-VE	A	ND
CS-17988-FG	_ _	City of Libby Alley	Alley	Alley 54	Soil-Like	Surface soil	Field Sample	10/20/2003	PLM-VE	Α	ND
CS-17989-FG		City of Libby Alley	Alley	Alley 56	Soil-Like	Surface soil	Field Sample	10/20/2003	PLM-VE	A	ND
CS-17990-FG		City of Libby Alley	Alley	Alley 59	Soil-Like	Surface soil	Field Sample	10/20/2003	PLM-VE	A	ND
CS-17991-FG		City of Libby Alley	Alley	Altey 60	Soil-Like	Surface soil	Field Sample	10/20/2003	PLM-VE	A	ND
CS-17992-FG	· - · - · - · · - · · · · · · · · · · ·	City of Libby Alley	Alley	Alley 62	Soil-Like	Surface soil	Field Sample	10/20/2003	PLM-VE	A	ND
CS-17993-FG1	CS-17992	City of Libby Alley	Alley	Alley 62	Soil-Like	Surface soil	Field Duplicate	10/20/2003	PLM-VE	A	ND
CS-17994-FG1		City of Libby Alley	Alley	Alley 63	Soil-Like	Surface soil	Field Sample	10/20/2003	PLM-VE	A	ND
CS-17995-FG1		-,, - ···+)		Alley 61		Surface soil	oap.o	10/20/2003		<u>'`</u>	ND .

			Sample	Location Description	Media				_		
Sample ID	Parent ID	Address	Group	(Sub Location)	Туре	Matrix	Category	Sample Date	Method	LA Bin	LA (%)
CS-17996-FG1		City of Libby Alley	Alley	Alley 64	Soil-Like	Surface soil	Field Sample	10/20/2003	PLM-VE	A	ND
CS-17997-FG1	·	City of Libby Alley	Alley	Alley 65	Soil-Like	Surface soil	Field Sample	10/20/2003	PLM-VE	A	ND
CS-17998-FG1		City of Libby Alley	Alley	Alley 66	Soil-Like	Surface soil	Field Sample	10/20/2003	PLM-VE	A	ND
CS-17999-FG1		City of Libby Alley	Alley	Alley 67	Soil-Like	Surface soil	Field Sample	10/20/2003	PLM-VE	Α	ND
CS-18000-FG1		City of Libby Alley	Alley	Alley 68	Soil-Like	Surface soil	Field Sample	10/20/2003	PLM-VE	A	ND
CS-18002-FG1		City of Libby Alley	Alley	Alley 69	Soil-Like	Surface soil	Field Sample	10/21/2003	PLM-VE	Α	ND
CS-18003-FG1		City of Libby Alley	Alley	Alley 70	Soil-Like	Surface soil	Field Sample	10/21/2003	PLM-VE	A	ND
CS-18004-FG1		City of Libby Alley	Alley	Alley 71	Soil-Like	Surface soil	Field Sample	10/21/2003	PLM-VE	Α	ND
CS-18005-FG1		City of Libby Alley	Alley	Alley 75	Soil-Like	Surface soil	Field Sample	10/21/2003	PLM-VE	A	ND
CS-18006-FG1	<u> </u>	City of Libby Alley	Alley	Alley 78	Soil-Like	Surface soil	Field Sample	10/21/2003	PLM-VE	Α	ND
CS-18007-FG1		City of Libby Alley	Alley	Alley 79	Soil-Like	Surface soil	Field Sample	10/21/2003	PLM-VE	Α	ND
CS-18008-FG1		City of Libby Alley	Alley	Alley 80	Soil-Like	Surface soit	Field Sample	10/21/2003	PLM-VE	Α	ND
CS-18009-FG1	_	City of Libby Alley	Alley	Alley 82	Soil-Like	Surface soil	Field Sample	10/21/2003	PLM-VE	A	ND
CS-18010-FG1		City of Libby Alley	Alley	Alley 83	Soil-Like	Surface soil	Field Sample	10/21/2003	PLM-VE	Α	ND
CS-18011-FG1		City of Libby Alley	Alley	Alley 84	Soil-Like	Surface soil	Field Sample	10/21/2003	PLM-VE	Α	ND
CS-18013-FG		City of Libby Alley	Alley	Alley 85	Soil-Like	Surface soil	Field Sample	10/22/2003	PLM-VE	Α	ND
CS-18014-FG		City of Libby Alley	Alley	Alley 87	Soil-Like	Surface soil	Field Sample	10/22/2003	PLM-VE	Α	ND
CS-18015-FG		City of Libby Alley	Alley	Alley 89	Soil-Like	Surface soil	Field Sample	10/22/2003	PLM-VE	Α	ND
CS-18016-FG		City of Libby Alley	Alley	Alley 86	Soil-Like	Surface soil	Field Sample	10/22/2003	PLM-VE	Α	ND
CS-18017-FG		City of Libby Alley	Alley	Alley 90	Soil-Like	Surface soil	Field Sample	10/22/2003	PLM-VE	Α .	ND
CS-18018-FG		City of Libby Alley	Alley	Alley 88	Soil-Like	Surface soil	Field Sample	10/22/2003	PLM-VE	A	ND
CS-18019-FG		City of Libby Alley	Alley	Alley 91	Soil-Like	Surface soil	Field Sample	10/22/2003	PLM-VE	Α	ND
CS-18020-FG1		City of Libby Alley	Alley	Alley 95	Soil-Like	Surface soil	Field Sample	10/22/2003	PLM-VE	Α	ND
C\$-18341-FG1		City of Libby Alley	Alley	Alley 96	Soil-Like	Surface soil	Field Sample	10/22/2003	PLM-VE	Α	ND
CS-18342-FG1		City of Libby Alley	Alley	Alley 97	Soil-Like	Surface soil	Field Sample	10/22/2003	PLM-VE	Α -	ND
CS-18343-FG1		City of Libby Alley	Alley	Alley 100	Soil-Like	Surface soil	Field Sample	10/22/2003	PLM-VE	A	ND
CS-18345-FG1		City of Libby Alley	Alley	Alley 102	Soil-Like	Surface soil	Field Sample	10/23/2003	PLM-VE	Α	ND
CS-18346-FG1		City of Libby Alley	Alley	Alley 119	Soil-Like	Surface soil	Field Sample	10/23/2003	PLM-VE	A	ND
CS-18347-FG1		City of Libby Alley	Alley	Alley 121	Soil-Like	Surface soil	Field Sample	10/23/2003	PLM-VE	Α	ND
CS-18348-FG1		City of Libby Alley	Alley	Alley 122	Soil-Like	Surface soil	Field Sample	10/23/2003	PLM-VE	A	ND
CS-18349-FG1		City of Libby Alley	Alley	Alley 120	Şoil-Like	Surface soil	Field Sample	10/23/2003	PLM-VE	Α	ND
CS-18350-FG1	CS-18349	City of Libby Alley	Alley	Alley 120	Soil-Like	Surface soil	Field Duplicate	10/23/2003	PLM-VE	Α	ND.
CS-18351-FG1		City of Libby Alley	Alley	Alley 103	Soil-Like	Surface soil	Field Sample	10/23/2003	PLM-VE	A	NĎ
CS-18352-FG1		City of Libby Alley	Alley	Alley 104	Soil-Like	Surface soil	Field Sample	10/23/2003	PLM-VE	A	ND
CS-18353-FG1		City of Libby Alley	Alley	Alley 117	Soil-Like	Surface soil	Field Sample	10/23/2003	PLM-VE	Α .	ND
CS-18354-FG1	. -	City of Libby Alley	Alley	Alley 105	Soil-Like	Surface soil	Field Sample	10/23/2003	PLM-VE	A	ND
CS-18355-FG1		City of Libby Alley	Alley	Alley 106	Soil-Like	Surface soil	Field Sample	10/23/2003	PLM-VE	A	ND
CS-18356-FG1		City of Libby Alley	Alley	Alley 115	Soil-Like	Surface soil	Field Sample	10/23/2003	PLM-VE	A	ND
CS-18357-FG		City of Libby Alley	Alley	Alley 116	Soil-Like	Surface soil	Field Sample	10/23/2003	PLM-VE	A	ND
CS-18358-FG		City of Libby Alley	Alley	Alley 123	Soil-Like	Surface soil	Field Sample	10/23/2003	PLM-VE	A	ND
CS-18360-FG		City of Libby Alley	Alley	Alley 109	Soil-Like	Surface soil	Field Sample	10/24/2003	PLM-VE	Ā	ND
CS-18361-FG		City of Libby Affey	Alley	Alley 114	Soil-Like	Surface soil	Field Sample	10/24/2003	PLM-VE	A	ND
CS-18362-FG		City of Libby Alley	Alley	Alley 113	Soil-Like	Surface soil	Field Sample	10/24/2003	PLM-VE	A	ND
CS-18363-FG		City of Libby Alley	Alley	Alley 111	Soil-Like	Surface soil	Field Sample	10/24/2003	PLM-VE	A	ND
		City of Libby Alley	Alley	Alley 108	Soil-Like	Surface soil	Field Sample	10/24/2003	PLM-VE	A	ND
CS-18364-FG		CITA OF PRODA WIREA									
CS-18364-FG CS-18365-FG		City of Libby Alley	Alley	Alley 110	Soil-Like	Surface soil	Field Sample	10/24/2003	PLM-VE	A	ND

Sample ID	Parent ID	Address	Sample Group	Location Description (Sub Location)	Media Type	Matrix	Category	Sample Date	Method	LA Bìn	LA (%)
CS-18367-FG		City of Libby Alley	Alley	Alley 125	Soil-Like	Surface soil	Field Sample	10/24/2003	PLM-VE	Α	ND
CS-18368-FG	CS-18367	City of Libby Alley	Alley	Alley 125	Soil-Like	Surface soil	Field Duplicate	10/24/2003	PLM-VE	A	ND
CS-17967-FG		NA	Blank	NA	Soil-Like	Şilica Sand	Equipment Blant	10/16/2003	PLM-VE	A	ND
CS-17977-FG		NA .	Blank	NA	Soil-Like	Silica Sand	Equipment Blant	10/17/2003	PLM-VE	A	ND
CS-17986-FG		NA	Blank	NA	Soil-Like	Silica Sand	Equipment Blant	10/18/2003	PLM-VE	Α	NO
CS-18001-FG1		NA	Blank	NA	Soil-Like	Silica Sand	Equipment Blant	10/20/2003	PLM-VE	Α	ND
CS-18012-FG1		NA	Blank	NA	Soil-Like	Silica Sand	Equipment Blant	10/21/2003	PLM-VE	Ä	ND
CS-18344-FG1		NA	Blank	NA NA	Soil-Like	Silica Sand	Equipment Blank	10/22/2003	PLM-VE	Α	ND
CS-18359-FG		NA	Blank	NA	Soil-Like	Silica Sand	Equipment Blant	10/23/2003	PLM-VE	A	ND
CS-18369-FG		NA	Blank	NA	Soil-Like	Silica Sand	Equipment Blant	10/24/2003	PLM-VE	A	ND

Notes:

The report excludes all laboratory quality control sample results, such as those associated with lab blanks, lab duplicates, re-preparation, re-count same, re-count different, verified analysis, etc. For LA Bin descriptions, refer to the Close Support Facility Soil Preparation Plan (CDM 2003c).

FG or FG1 = fine ground

NA = not applicable

PLM-VE = polarized light microscopy - visual estimation

LA = Libby amphibole

ND = nondetect

Appendix A Field Log Notes

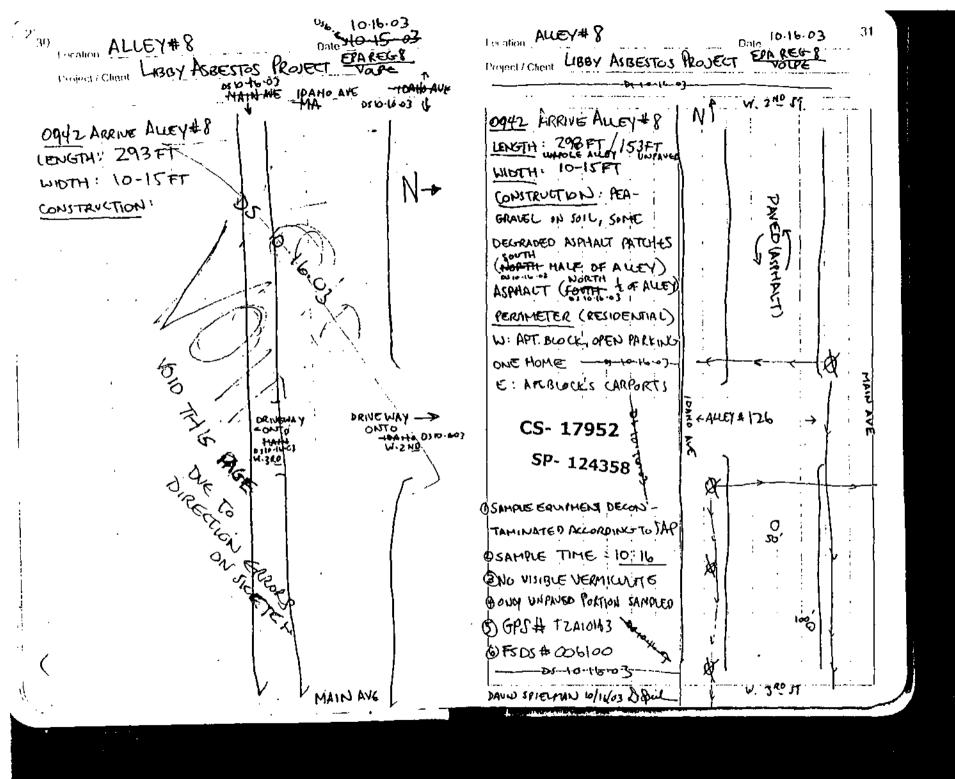


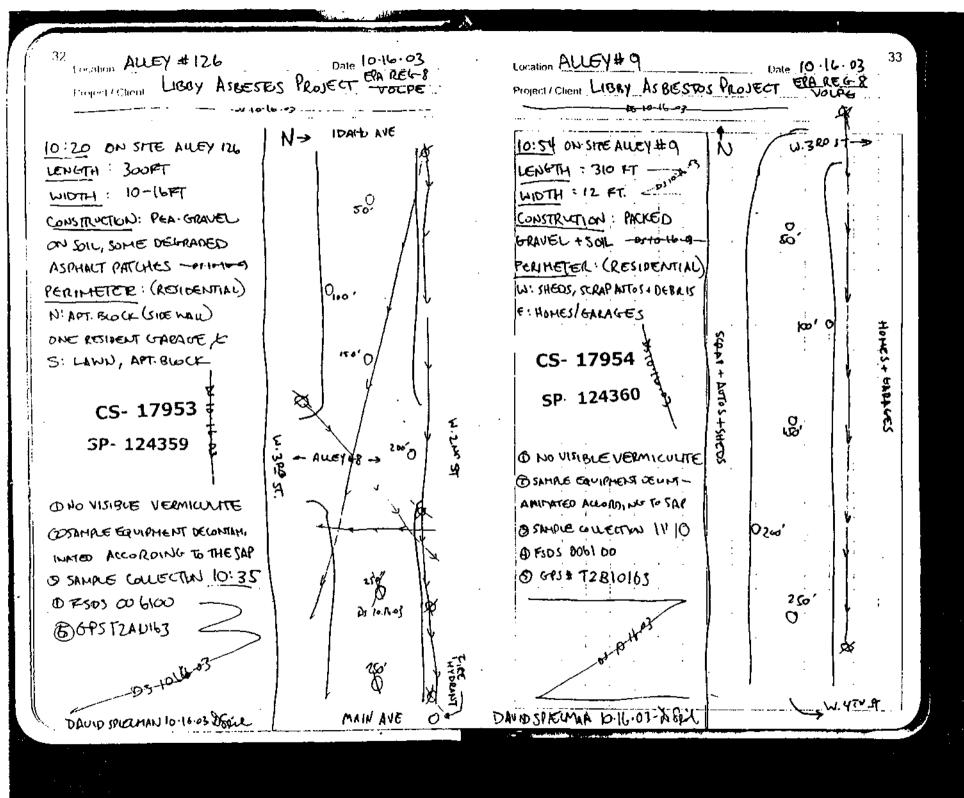
1 - alon AUEY Shuffonds # 1 Date 10-15-03 Dale 10.15.03 23 Location AUEY# 1 LIBBY ASBESTOS PROJECT EPARECES Project Client LIBOY ASSESTEDS PROJECT OF NEGE 1430 #1 SON SAMPLES FOR ALLEY #1 WEST SIDE STARTING POINT CS- 17947 SP- 124353 15:11 LENCEH: 234 WIDTH : 9'-19 100 11 p. 15.01 CONSTRUCTION SOIL AT WEST END . CARAVEL FROM MID-END 15-0 bs 10.15.03 PERIMETER S: GARAGES (RESIDENTIAL) N: STOCKARE FENCE 200 × 1015.4 Darone NOTES NO VISIBLE VERMICULITY 0501 OVERHEAD GPS # 7-24101500 U TILL TTY LINES DAVID SPIEMPN -10.15 03 - Dail Spl DAMD SPIELMAN - 10.15.03 -

Project/Client LIBBY ASBESTOS PROJECT POLICE

V5005 3 15:21:0NSITE SUB. PEWT LENGTH : 301 FT. WIDTH: 16 FT. 200 CONSTRUCTION: WEATHEREDSON, GRASS STRIP IN MIDDLE PERIMETER (RESIDENTIAL) N: STOCKAGE FENCE 2001 5: WIRE FENCE+GARAGE MINES ONE DRIVENAYS C5- 17948 p'20. SP- 124354 SAMPLE EQUIPMENT DECON. ACCORDING TO SAP -PF10-1F03 SAMPLED AT 15:40 GPS# FZANOISUTO TZAWISJ (A LINALL BOTE TINES) FIRE HYDRANT : DAVID SPIEMAN-10-15.03 - Davidbril

16:00 ON SITE - ALLET#3 AND ALLEY & 4 ARE ACTUALY PART OF 214 COLORADO AVE PROPERTY AND WERE SAMAJED AS DRIVEWAY AND BACKYARD (DAWN) ZAMBRANO REPORTS HE AND BOB HUNT DID THIS. ALLEY #5 16:06 ON SITE + NO SIS LENGTH: 300 FT WLDTH & G'AT E ENTRANCE CONSTRUCTION Zou WEATHERED GRAVEL AND SOIL. 1 PERIMETER (RESIDENTIAL) N. WIRE FOXES, ONE 1501 GALAGE -NO (TO) 5 PARKING, 2 CARPORTS ONE HOME - ++12-15-13 ව්වරේ CS- 17949 SP- 124355 () 50° NO WINE VERMINITE SAMPLE COLLECTED ACCORDING TO SAP, SAMPLE TIME 16:37 GR# T2010153 DAVID SPIEMAN - 10-15-03-





Location ALLEY # 10 Date 10.16.03 Location ALLEY # 11 Date 10.16.03 Properticient LIBBY ABBESTOS PROJECT FRAREGE Project/Client LIBBY ASBESTOS PROJECT TOUR OW FENCE 11:42 ON SITE ALLEYA 11 11:18 ON SHE ALLEY #10 LCNGTH: 218FT. -LENGTH: 297 ----3 WOTH: 14 PT -VIDTH: 12: -BONNING ALLEY CONSTRUCTION: SOIL WITH CONSTRUCTION: PACKED: 200 GRAVEL PUSHED IN' (NATURAL SOIL AND GRAVEL MEA WITH GRASS, LEAVES, PERIMETER: (RESIDEMIAL) W: HEDGEROW, GARAGE. TUGS IN THE ALEYWAY) PERMETER: (RESIDENTIAL) DHE DRIVEWAY YARD E: SHOWBS/BACKUE HEMES E: STOCKAGE FENCE. 0150 SHED/CAMPER PAD M: CREEK BED - AF HOLLINGS 150 9, 0 120 CS- 17956 CS- 17955 SP- 124381 SP- 124382 8710-16-03 SAMPLE COLLECTED 11:37 O 5.164 DING VISIONS VERMINUTE THO VISIBLE VERMICOLITE (2) SAMPLE EQUIPMENT IS: (3) SAMPLE GOVINENT IS DECONTAMINATED ASPER TH DECONTAMINATED AS/PER SAR 942D2#C22-2-006101 OFSD1#CSS-S-006101 1 ON# TZD10163 DGPS# T2C10167 Dr. Ja. P. de - JACKHAMMER NOT REQUIRED ල_{20,} 5 RAIN SOAKED SOIL IS SOFT. 15. 16.16.0) M:41H 11----DAVIO SIELMAN-10-16-63-15 - LW.474 1700 DAVID SCIEUMAN 10.10-012/801

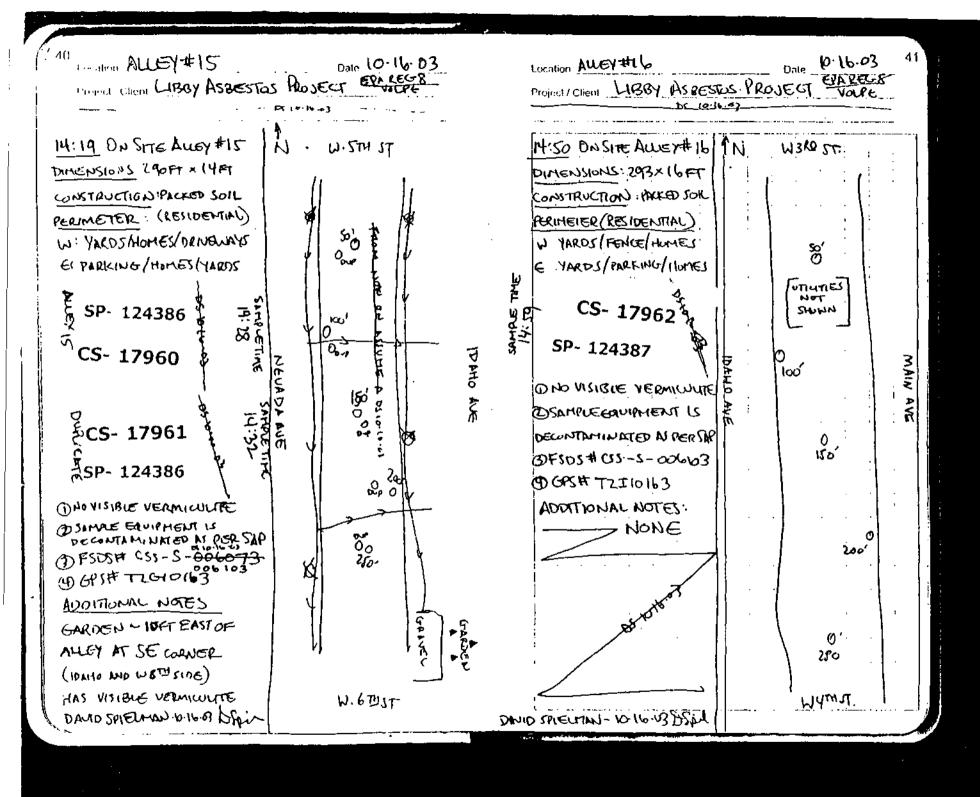
Project / Client LABOY ALBESTOS PROJECT EM REG 8 W. 4Th ST 13:09 ON SITE ALLEY AND N LENGTH: 215PH - TIPE OF WIDTH : HYET CONSTRUCTION: PACKED SOIL PERIMETER : (REGIOSHTAL) W. BACKYARDS / SHEDS E.BACKYARDS/SHEDS IS, ENDS ATA BACK YARD OPEN SPACE FOR VEHI CS- 17957 SP- 124383 O NO VIRGUE VERMICULATE 150 ED SHIPLE EQUIVABLY (S DECONTIANTAL DECONO ACCORDING TO THESAP 19-500 # COS-S-Odobl @ GPS# TZE10163 3 NO JACKHIMMEN PRY BAR to DIC SAMING. BACKYARD! DAYS SPIENMA N-1041.03 DEL

Date 10-03

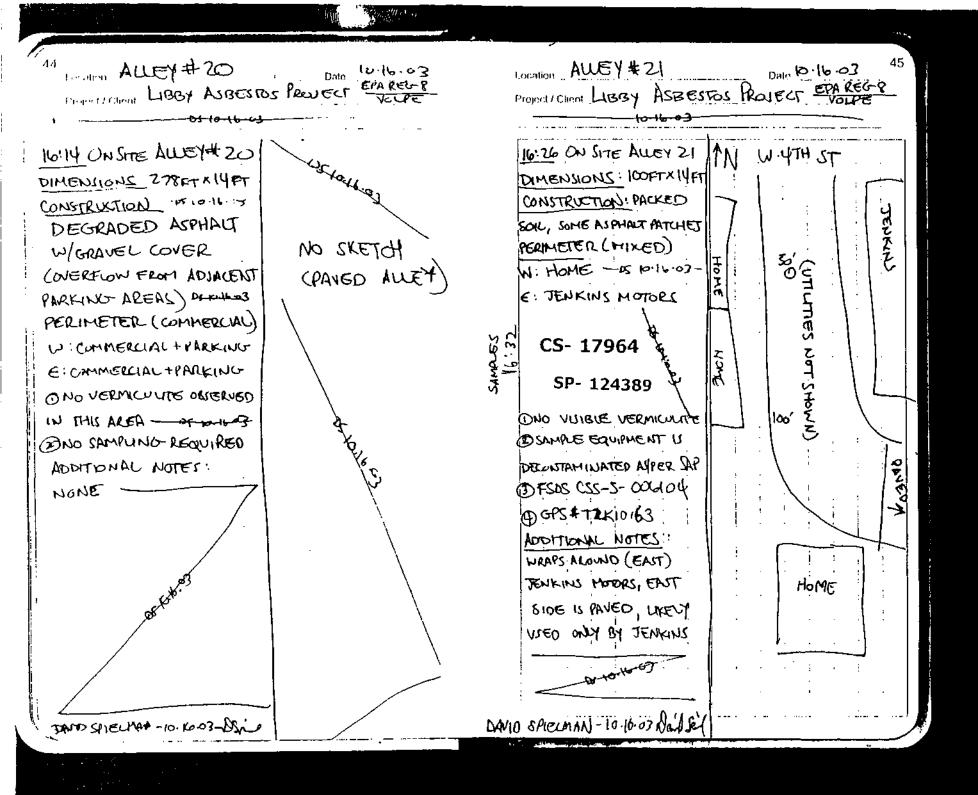
Location AUEY 4/2

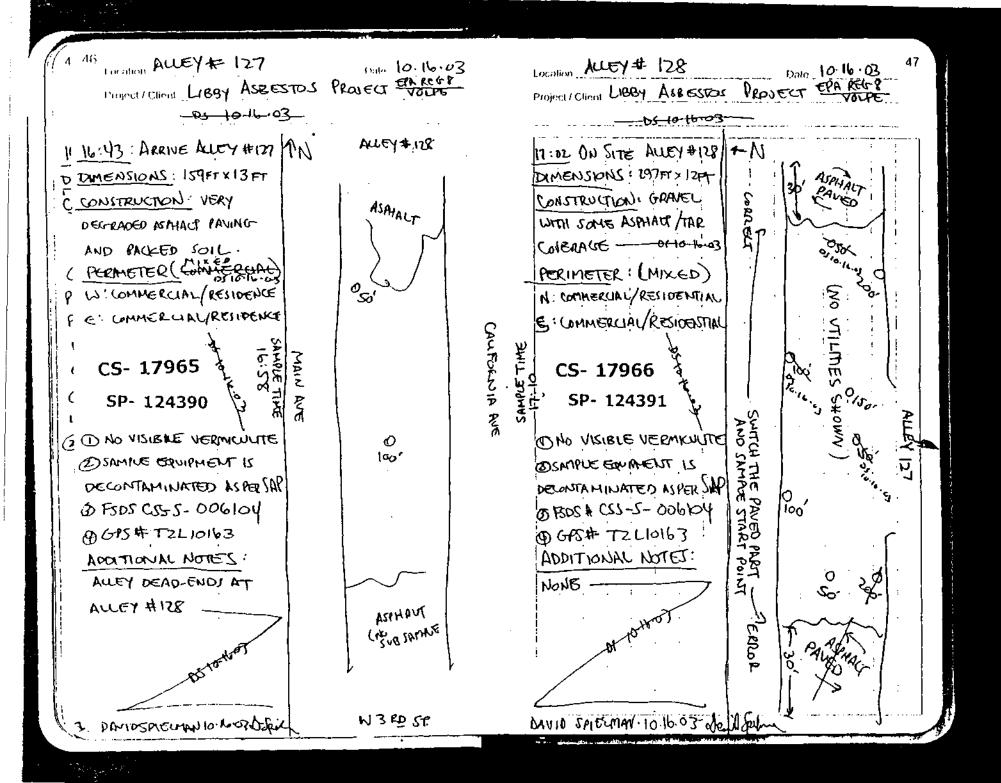
DAVID SPIERMAN - 10.16.03 - David Sich

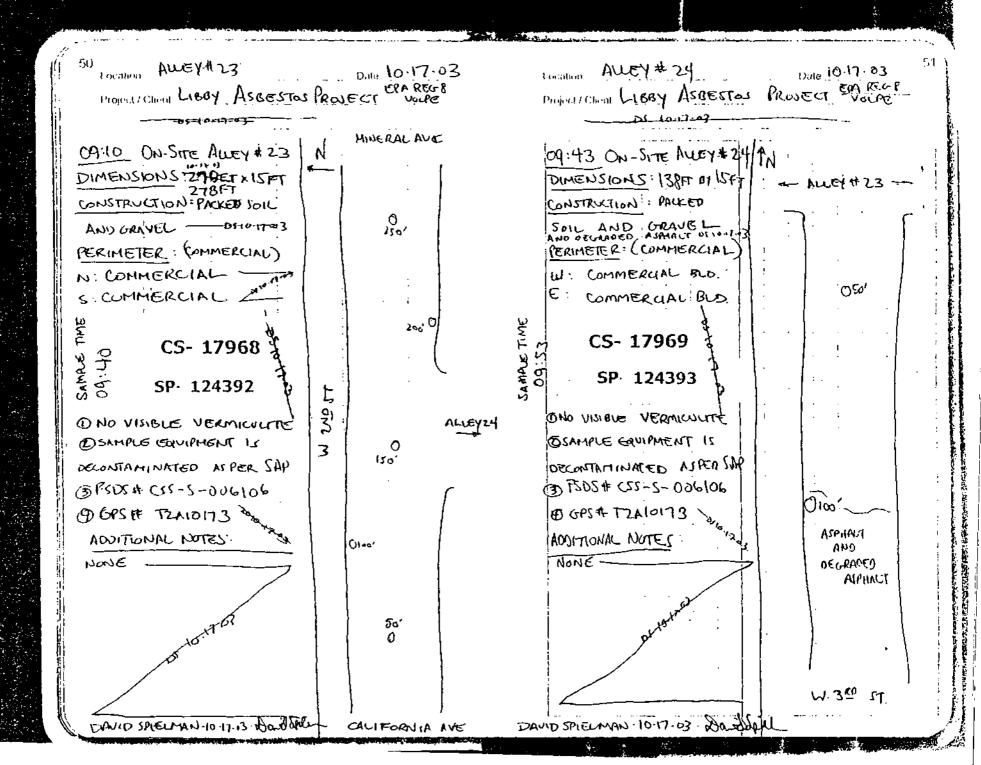
... ALLEY # 13 1 materia ALLEY#14 Dale 10.16.03 mar 10-16-03 - PRINCHING LIBBY ASSECTOS PROJECT TOURE LIBBY ASSESTED PROJECT GODREGE W.47 5t W 3ROST 14:00 ON SITE ALLEY #14 1 13:34 ON SITE Alloy \$13 DIMENSIONS: 300FT. XISFT. DIMENSIONS: 294FT. X 14FF À CONSTRUCTION: PACKED SOIL CONSTRUCTION : HALD PACKED PERIMETER : (RESIDENTIAL) SOIL W: HONES /YARDS /CAR FORT PCKIMETER (RESIDENTIAL) W: HOMES/BACKYANDS E: HOMES/YARDS/CAR PORT E: HOMES/YARDS/DRIVELLAYS CS- 17959 CS- 17958 01.0 5P- 124385 SP- 124384 150 ONO VISIBUE VERNICULITE OND VISIBLE VERMICULTE DSAMPLE EQUIPMENT IS @ SAMPLE GOVIPHENT 'UT 1501 DECONTAMINATED AS PER SAT DECONTAMINATED AS/PER SAP SAMPLE TOUR BREAKER AR (3) SAMPLE TOOL : BREAKER BAR 200 DKSDS # CSS - 006102 (P505#C51-5-006102 2000 \$ GPS# 1726-10163 @GB# T2F10163 NOTEMACHI JANOITICOA ADDITIONAL INFORMATION NONE -HOW TIS IBELDI WILLOS NONE 250 2501 01-10-18-03 W STO Ji. WYTHST DAVID SPIEUMAN 10-11-03-Dans LABOROSPIOLMEN-12-16-03& Per



Location AVEY # 17, AVEY # 18 Date 10-16-03 Location AUEY # 19 ___ Date 10.16.03 Project / Client LIBBY ASBESTOS PROJECT EPAREUS Project Chent LIBBY ASEESTOS PROJECT FOR REG-8 15:0b THEY #17 (NO SITE SKETCH) 15:47 ON-SITE ALLEY #19 TN DIMENSIONS: 296FT X 6FT DIMENSIONS 301FT X 12FT. CONSTRUCTION: PANED CONSTRUCTION PACKED SOIL PERIMETER (RESIDENTIAL) W/SMALL NOHALT PAICH AT THE W: APARTMENTS/HOME WITH FENCE)/PARKING NORTH END! - 15 10 16 03 E: HOMES/PARKING PERMETER= (REJIDENTIAL) WITHOUSES/YANDS/PARKING NO SAMPLING REQUIRED NO VERMICULIE OBSERVED IN THE AREA E: HOUSES/YARD/PARKING ALLEY # 18 (NO SITE SKETCH) CS- 17963 DIMENSIONS - 30 M XIGET SP- 124388 CONSTRUCTION: PAVED. PERIMETER (RESIDENTIAL & COMMERCIAL) THO VISIBLE VERNIULITE W: HEDGETHON/HUMES 000 DEMPLE GOVERNENT IS E: POST OFFICE - PARKING AND BUILDING DECONTAMINATED AS PER NO SAMPLING REQUIRED NO VERMICULTE OBSERVED IN THE AREA 1 Fsds CSS - 5 - 20663 # GPS # TR T2110163 ADDITIONAL NOTES :: NONE SVI EINTOLN BLUD . DAVID SPIEUMAN --- 10-16-03 ---DAVID SPIELMAN - 10.16.03- WOODL







NOTES : NO SAMPLING FEQUIPED IN PAVED ALVEYS
AND NO VERNICULITE WAS OBJECTED IN THE AREA

DAVID SPIELMAN - 10.17.03 - David Soulis

N: W. STEST S: W. ATST.

Project / Client LIBBY ASBERTOS PROJECT FOR REG & 10:18 ON SITE ALLEY# 28 DIMENSIONS : 280 PTX /8-CONSTRUCTION: ASPHALT PAVED, FAIR CONDITION PERIMETER: HOSTLY COMMERCIAL, ONE RESIDENCE BOUNDARIES . W: CAUFORNIA AVE E. MINERALANE N. WETT ST. S. LINCOLN BLUD. - PF-D-17-07 NOTES: NO SAMPLING REQUIRED ON PRICED ALLEYS, AND NO VISIBLE VERMILIZATE IN THE AREA

DAVIO SPIELMAN - 10.17.03_ David Soulie

Location ALLEY # 28

Location ALLEY # 29 Location ALLEY # 22 12ate 10.17.03 11 de 10 17 03 Property Cheek LIBBY ASBESTOS PROJECT EPA REG & Project/Chien LIBBY ASBESTOS PROJECT EPARES 8 - Lo-Fit-0) 26--10:49 ON SITE AUEV#2/2 -----10:24: ON-SHE ALEY#29 | AN W.6TH ST DIMENSIONS: 283FTX 15FT DIMENSIONS - A BUELDING IS ON SITE THERE IS NO ALLEY, A PAVED PARKING LOT IS AGO ON THE CONSTRUCTION: PACKED SOIL AND GRAVEL -- 10-170) BOUNDARIES: BLOCK BORDERED BY MAIN AND 020, PERIMETER: (RESIDENTIAL) CALIFORNIA, W. 50 AND WORD STREETS. - SICITION W: HOMES/YARUS/OLIVEWAYS E: HOMES/YARDS/DRIVEWAYS 'مان Ē. CS- 17970 SP- 124394 iso' 1) NO VISIBUE VERMICULITÉ 3 SAMPLING GRUIPMENT IS DECENTAMINATED ASPERSAP 3) KOS# C22-2-006106 (B) GPSTF TZB10173 200'0 APPITIONAL NOTES : THERE'S A PROPANE TANK BEING RACED AT RESIDENCE IN S.E. O SUA END OF ALLEY, VISUAL OF SOIL TREACH DUGFORGAI LINE IS FROM 8", NO VERMICULITE OBJERVED. ----- 14.1 WILLIA Arand DAVIO SMELMAN 10-17-103 LINGEN BUYD

Loration ALLEY #30 Date (0.17.03 Dale: 10-17-03 Location ALLLEY # 31 Project relient LIBBY ASBESTOS PROJECT EXAREGES. Propert/Client LIBBY ASBESTOS PROJECT STAREO ! _123-10-12-03 لإمادالمهاليك 10:57 ON SITE ALLEY#30/~N 11:26: ON SITE ALLEY #31 HINERAL AVE MONTANA AVE CONSTRUCTION : GRAVEL DIMENSIONS : 102FT x 15 FT CONSTRUCTION: GRAVEL AND AND PACKED SOIL PIMENSIONS: 102FCX 15FC PACKED SOIL --- NE-10-17-03 $\mathbb{O}_{1\infty}$ PERIMETER! (COMMERCIAL) PERIMETER : (COMMERCIAL) - THIS IS A STIGHT DRIVEWAY -THIS IS A SHORT DRIVEWAY NEXT TO THE "HINT" BAR USED BY 'ACHIEVEMENTS' LETS OUT ONTO A GRAVEL PARKING LOT CS- 1.7971 CS- 17972 SP- 124395 SP- 124396 (DNO VISIBUS VERMICULITE 2) SAMPLING EQUIPMENTIS THO VISIQUE VERMICULITE DECONTAMINATED AS PERSAP DSAMPLING EQUIPMENT IS 3) FSDS #CSS-S-006107 DECONTAMINATED AS PER SAP 3 FSOS# CSS-5-006107 (A) GPS# TZC10173 @ GPS# T2010173 CETON JANOITIOGA osor THE EXTENT OF THE MUCH ADDITIONAL NOTES: IS TUT UP TO THE END OF NONE BLO. HOUSING "THE HINT BAR PARKING WIT REMAINDER LIA GRAVEL PARKING LOT. TO LAUFORNIA AUT 125 10-17-05 CALLEDRNIANE DANIO SPIELMENTO 10-17-03 AS MINERAL AVE. DAVID SMELMAN 10.17 or - Dal

Project Chint LIBBY ASBESTOS	PROJECT BAREGE	Location ALLEY#33,#34 #35,#36 10-17-03 59 Project/Client Library Aspestos Project Epa Reg 8 Volve
T6-10-17-8-		
DIMENSIONS: 180RT X 14CT	PARKING COT	DIMENSIONS: 288PT × 15 PT
CONSTRUCTION: PRICED SOIL/GONEL PERIMETER: (MIXED) H: ONE HOME / COMMERCIAL		CONSTRUCTION: ASPHALT PAVED - FAIR TO POOR CONDITION PERIMETER COMMERCIAL
S: Contrercial Building CS- 17973	150/	BOUNDARIES NORTH E. 2'10 ST. SOUTH: E. 3RI ST. WEST: HINERAL
O NO VISIBLE VERNICULIE	0100'	NOTES: NO SAMPLING REDUIRED ON PRIED RUEYS, AND NO VIBLE VERMICHTE IN THE AREA
D SAMPLE EQUIPMENT LI DECONTAMINATED AS YER SAP BY-SOS CSS-1-006107		14:01 ON SITE ALLEY# 34
ADDITIONAL NOTES: THIS IS A SHORT DELIEWAY	05,	LAND IS USED BY THE BUSINESSES ON THE BLOCK- 14:04 ON SHE ALLEY # 35 - as 10:17:03 - NO ALLEY HERE-IT IS GRASS LAWN, OVERGROWN
THAT LETS OUT ON THE EAST SIDE (NTO A LARVE GRAVEL PARKING LOT		DIMENSIONS: 305FTX18FT CONSTRUCTION: ASPHALT PAVED, COODCONDITIONS DITTOS
Dr. 163	MONTANA AVE	PERIMETER: COMMERCIAL PSOUNDARIES INORTH OF DU E ZARST WEST LOUSINNS
DAVID SOFEWAN. 10.1703 David Qui	·	DAVID SPIELMAN -10-17-03 - Gard Spilla

14:49 ON STE ALLEY#40 DIMENSIONS: 298PT. X14PT. CONSTRUCTION: ASPHALT PAVED, FAIR CONDITION PERIMETER: MIXED COMMERCIAL AND REVOENTIAL BOUNDARIES NORTH: E STY ST & COEST: HONTAND ME NO SAMPLING REQUIRED ON PRIED ALLEY, AND NO -VINGLE VERMICULITE IN THE AREA 15:20 ON SITE ALLEY #41 -DIMENSIONS: 288× 18FT CONSTRUCTION: ASPHALT PAUSO, FAIR CONDITION, PATCHED PERIMETER HIXED, MOSTLY COMMERCIAL, ONE HOME BOUNDARIES: NORTH ELTYST WEST MINERAL AVE. -01-17-03 SOUTH ENOTH BLVA EAST MONTANA AVE NO SAMPLING REQUIRED ON PAVED ALLEY, AND VISIBLE VERMINITE IN THE AREA. - David Spuha DAVID SPIELMAN _____10.17.0%-

10 17-03

EPA REG-8

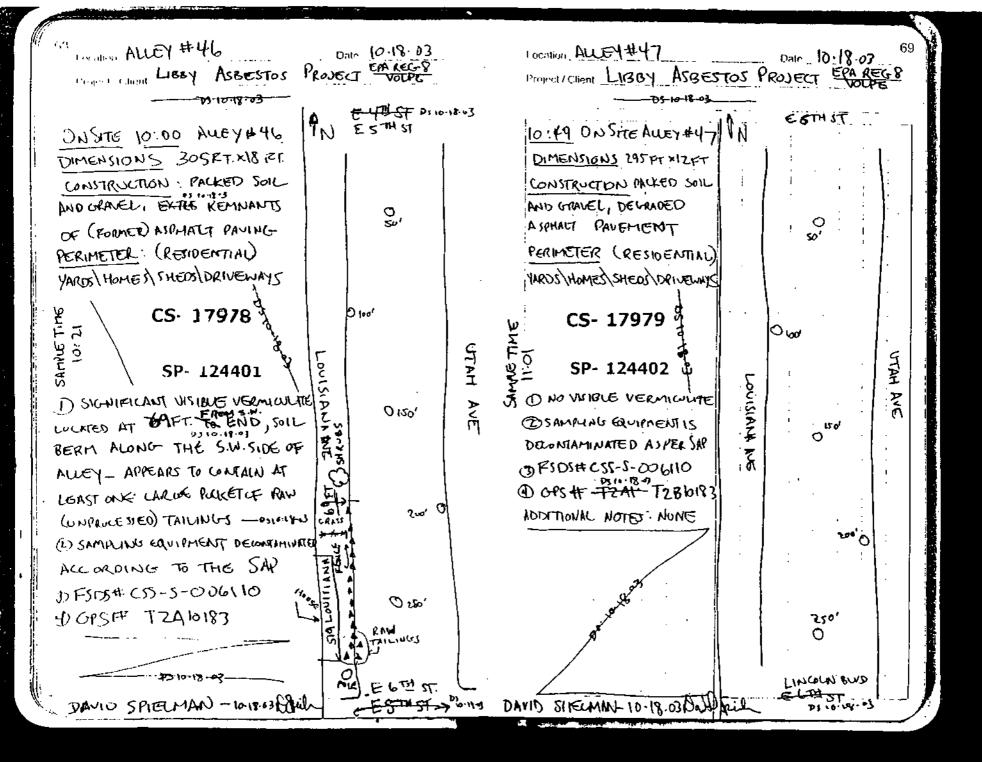
AUSY# 44		10.17.03	_ _
LIGAY ASBESTOS	PROJE	ECT EDA REG 8	
	~		
16:55 ON SITE ALEY #44	4	E 6THST	****
DIMENSIONS : 294 PT. X 16 FT.	¹ N ∣	(•
CONSTRUCTION : EXTREMELY			
DEGRADED ASPHALT PAVING,		020,	
NOW MOSTLY GRAVEL AND SOFT			
ASPHALT/SOIL MIXI - DS 100 1763			
PERIMETER (RESIDENTIAL)	}	المارم	
- HUMES/YARDS/SHEDS/DRIVEWAYS		}	
CS- 17976	7	05°	Lou
CS- 17976 P- 124400 CS- 17976	MONTANA	ő	OUSIANA A
ONO VISIBLE VERMICULTE	AVE		(N
2) SAMPLE EQUIPMENT (S	ا س	3(
I DECONTAMINATED AS PERSAP	}	2000	
_ 3 F5D5# CSS-S-006108			
⊕ GPS# TZH10173			
ADOTTIONAL NOTES:		2501	
NONE		6	
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DAVID RIELMAN - 10.17.03	Donil 8	yd.	
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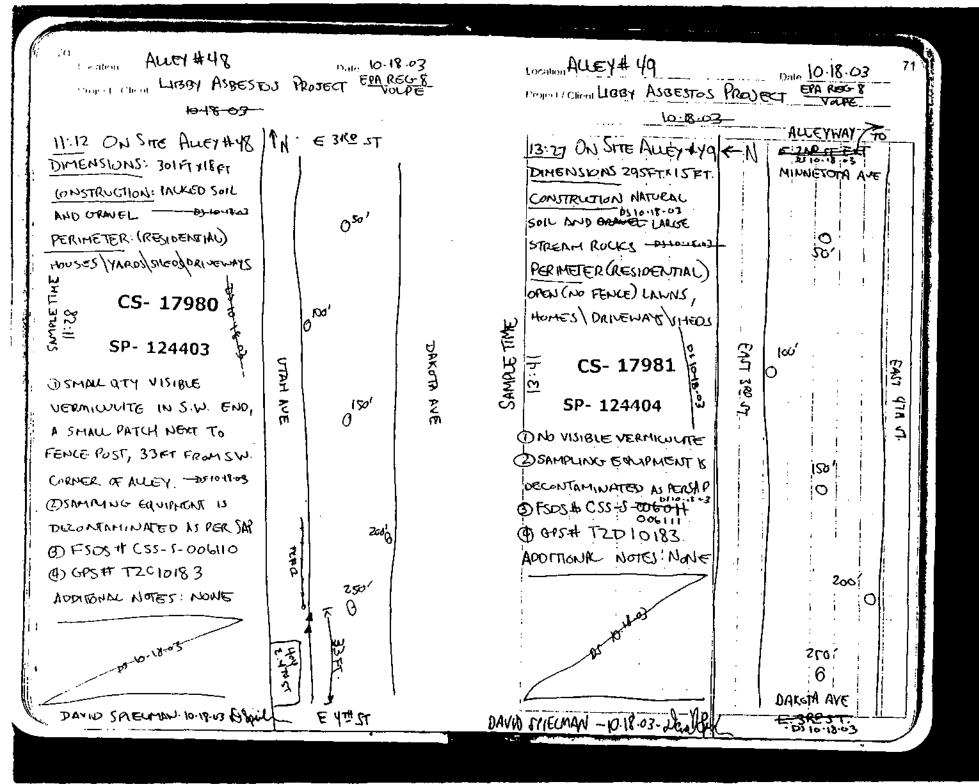
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Location 10-18-03 HULEY# 43 Date 10-18-03	•
Project / Client LIBRY ASBESTOS PROJECT FOR REG 8	
35 to 13 43	
0950 ON SITE ALLEY # 45 - 300 18-05	
DIMENSIONS 297 × 20FT	- i
CONSTRUCTION . NORTH HALF IS BLACK TOP PAUTO,	_
SOUTHHALF IS DEGRACED ASPHALT IN FAIR TO POOR	ι ;
CONDITION	٠
PERMETER (HIXED) NORTH HALF IS COMMERCIA	
PARKING, SOUTH HAUF IS RESIDENTIAL	
BOUNDARIES HORTH E. 47457 WEST LOUISIANA AVE	5T;
SOUTH E.ST ST ENT UTAH AVE	:
No SAMPLING REQUIRED IN PAUSO LUCYS AND	j
NO VERNICULTE VISIBLE IN THE LIEA	ナ
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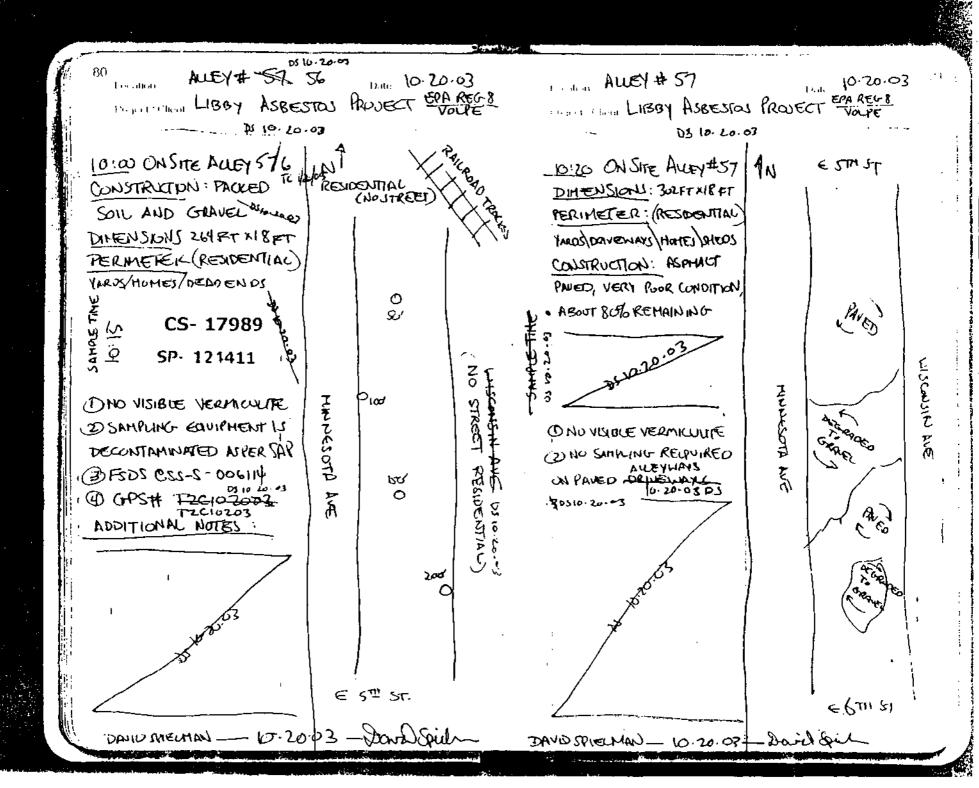
- David Spile

DAVID SPIELMAN - 10.1803 -





	والمراوية	A	s <u>Santan sa </u>					التهجيب
*	18 ALLEY # 54 55 Topolo Ulan Libry ASBE		PROJECT EM R	03 &U.S.	Frequencial LIBBY ASBESTAS	Rovec	10.20-03 EM 100.8 T VOLPE	29 ~
	0900: ALLEY # 5404 SITE	M	६ 5ए ध.		0936: ALLEY # 59 ON SITE	14	€ 2m st.	
	DIMENSIONS: 298FTXIBET CONSTRUCTION: PACKED SOIL AND CHRAVEL PERIMETER: (RESIDENTIAL) YAROSISHEUSYMUJESDRIJEMAY FOR C5- 17987 GP. 124709 DNO VISIBLE VERMICULTE DECONTAMINATED AS PER SAP FSDS# CSC-3-006114	DAKOTA AVE	رد افعا معا الاها	MINNESUTA AVE	DHENSIONS: 300 FTX ISFT CONSTRUCTION: PACKED SOIL AND GRAVEL — BUTING OF PERIMETER (RESIDENTIAL) MUDS/SHEDS/HOUSES/DRIVEHAND DECISION HOUSES/DRIVEHAND DNO VISIBLE VERMILULITE DECISION HOUSES/DRIVENT IS DECISION HOUSES/	DAKOTA ANT	\$0' 0' 160'	HENRE OF THE
	AMOITIONAL NOTES!		E 6 14 21.		ADDITIONAL NOTES: NONES		250° 0° €. 671357.	

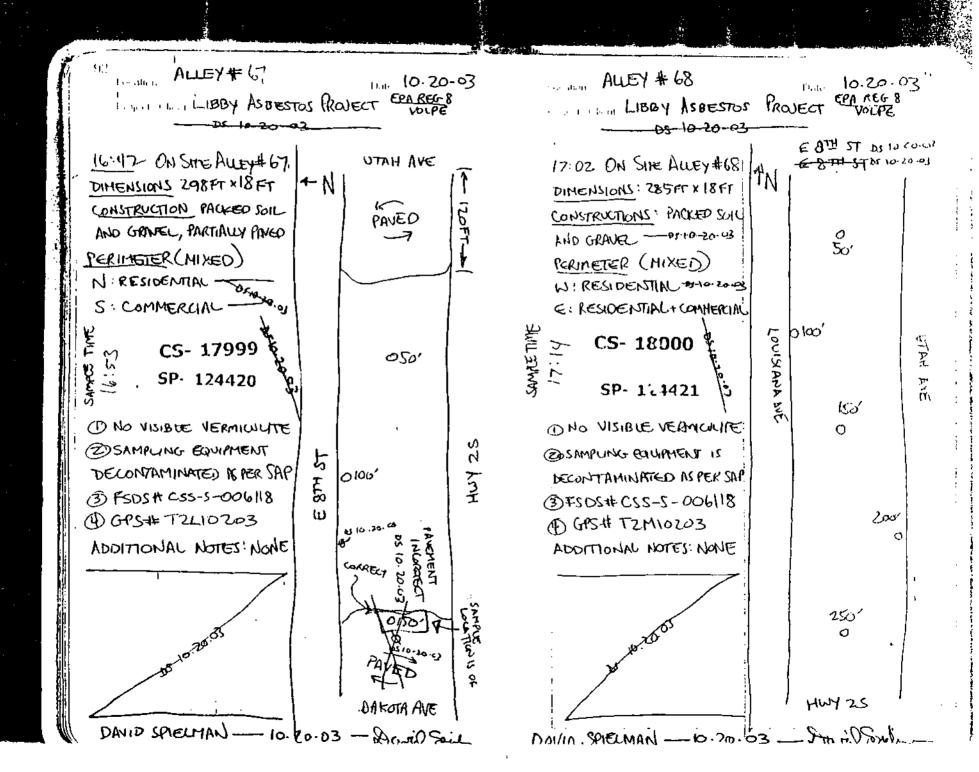


Location ALEY#60 Project / Chent LIBBY ASSESTO DS 10 20	<u>i</u> f	Pale 10.20	03 ⁸⁵ goe Tre
13:50 ON SHE AVEY#60 RAINING (MODERATE) DMENSBAL ZAGET X 14FT CONSTRUCTION) PACKED SOIL AND GRAVEL — PS 10:2003 PERMITTER (RESEDENTIAL) YARDS/DRIVEWAY/HOMES/SHEPS BYO CS- 17991 6 SP- 124413 6 DNO VISIQUE VERNICULITE DECONTRACINATED K PER SAP DESCATORILIMATED K PER SAP DESCATORILIMATED K PER SAP ADDITIONAL NOTES: NONE	2 huislonsin and	\$\$\frac{15\tau}{0}\$	MICHIGAN AVE
DAVID STELMAN 10.2003-&	ئىز.	LINCOLN BLVA	

			The second secon
Project Chem LIBBY ASSESTOS F	PROJECT EPAREUS	Compatible LIBBY ASSESTED PRODUCTION TO THE TOTAL PRODUCTION LIBBY ASSESTED PRODUCTION TO THE TOTAL PR	Date 10-20-03 81 DECT PRICES &
DIMENSIONS 295FTX 1 19FT CONSTRUCTION PARKEDSIL PERIMETER (RESIDENTIAL) HOMESYAKONDRIVENANIANER CS- 17992 SD- 124414 SD- 124414 SD- 124414 DULLATE DULLATE DULLATE DULLATE DULLATE DULLATE DULLATE DULLATE DECONTAMINATED AS PER SAP DESOLA COGIIG DISTONAL NOTES: NONE TO TOTOGS TO TOTOGS TO TOTOGS DECONTAMINATED AS PER SAP ADDITION AL NOTES: NONE	TWOM BIND SOOP SOOP SOOP SOOP SOOP SOOP SOOP SOO	H:28 ON SITE ALLEY 463 RAINING (MODERATE - HARD) DIMENSIONS 297PT X IVFT CONSTRUCTION SOL PACKED SOIL AND GENERAL DIMENSION PERMETER (RESIDENTIAL) SP. 124415 D'S. 124415 D'S. 124415 D'SAMPLING EQUIPMENT DECONTAMINATED AS PER MIS D'ESTA CIS-5-006116 D'ESTA TIGHONO ADDITONAL NOTES: SHALL GTY OF VISIBLE VERMILLULTE IN GRASS NEXT TO DOG GRAN IN BACK YARD ASSOCIATED WITH 813 WISSOM	14 M M M M M M M M M M M M M M M M M M M
DAID SAELMAN - 10-20-03 -	- David Eulia	DAVID SPIELMAN - 10.20.03 - Dan	elden ST

HISO ON SITE ALLEY#61 EXT. & LINCUIT BY TO SO STEED STEED BY ASSESTED PROJECT ENGINEER STEED BY ASSESTED BY	
13-10 ON SILE HILE!	E .
DIMENSIONS 348FT. XLGFT. CONSTRUCTION: PACKED SOIL AND GRAVEL (3" + OF GRAVEL) PERMETER (MIXED) E: RESUDENTIAL (REACED) W: COMMERCIAL (TEXAGO) W: COMMERCIAL (TEXAGO) W: Sp. 124416 D NO VISIBLE VERMICULTE (2) SOMMLING EXPIPMENT DECONTAMINATED MARK SIR (3) STOCK CS: 5-006116 (4) GRSH T2H 10203 ADDITIONAL NOTES: NOWE LOW LOW LOW LOW LOW LOW LOW	MISONSIF FVE

and the second s			
90 Location ALLEY # 65 Project Chan Library ASBESTS	PROJECT EXARGINE -	Date 10-20-03 Policy #66 EPA REG 8 EPA REG 8 Volve	111
IS:28 ON SITE ALLEY#65 DIMENSIONS 307FT X 12FT CONSTRUCTION: PACKED SOIL AND GRAVEL PERINEIER (RESIDENTIAL) HOMEN YARDS SHEDS DRIVEHAYS CS- 17897 & SFLO SP- 124418 D NO VISIBLE VERMICULITE DECONTRINATED AS PER SAP DESDER CSS-S-00617 D GPS H- T2310203 ADDITIONAL NOTES: NONE	PROJECT EXPREST NO SO	15:50-16:06 COFFEE BRECK THINHESOTA-AVE (GLO+HARD RAIN CONTINUES) (BIS ON SITE ALLEY 66 DIMENSIONS 301FT X18FT CONSTRUCTION PACKED SOL AND GRAVEL MINDERS PERIMETER (RESIDENTIAL) HOMESYARDS DRIVE WAYS HEDS W SP-124419 150' 150'	
DAUM COIFIMAN - 10-20	\ · · · · · · · · · · · · · · · · ·	DAVID SPIEUMAN - 10.20 p3 - Bare DEpul	·.



DAVID SAEUMAN .- 10.21-03 -

10 SPIEHMW - 10.21.03 - dard frie

Locution ALLEY #79 Date to U . 03 Location ALLEY# 80 Date 10.121.02 Project Client LIBBY ASBESTOS PROJECT EPAREUS Project / Client LIBBY ASBESTOS PROJECT EPA REG & 705-10-71-03 -- D5-10-24-03-MIST ON SITE ALLEY # 79 HWY 2_ ISY ON SITE ALLEY & 1 N' DIMENSIAS SUBSTX 18FT DINENSIONS ZOZFIXISTET CONSTRUCTION ROAD BASE CONSTRUCTION MUCEOSAL 908 AND BUCKED POLL (IT !IT AND CHRAVEL - DELIGINARY MINERAL FT NO. TO SOUTH (5 PAUED) PERMETER : (MIXED) PERMETER (MIXED) H: COMMERCIAL + RESIDENTIAL W: RESIDENTIAL+ COMMERCIAL E: RESIDENTIAL MINERELES E RESIDENTIAL + COMMERCIAL STOCKPLLE NORTH END IS DEAD END AT FENCE FOR HLH 2 PARKING CS- 18007 CS- 18008 SP- 124427 PZ log/ 10 NO VISIBLE VERNICULTE SP- 124428 15 SAMPLING EQUIPMENT IS 201 DECONTAMINATED AS ITER SAP 1 SMALL OTY VEIBLE (1) FSOS# CSS-S-006120 EURYDOTZ WI STUUSIMERY 9 6954 TZF10213 (GRASI/SOIL/GARGEN DEBRIC) ADDITIONAL NOTES : NONE NH CORNER OF ALLEY, MAY Kar BE ASSOCIATED WITH BACKYARD OF 901 MINERAL AVENUE APTY. 150 @ FIN # CIS- 5-801130 Vo @ 695# T26.10213 そうはら DAVID ShELMAN - 10.21.03 L Dail Spit DAVID SPIELMAN - 10.2).03 - Sent fine

1	1:00 ON SITE ALEY# 90 DIMENSIONS: 193FT X 18FT CONSTRUCTION: PACED SOIL PERIMETER: RESIDENTIAL	os Pro	Date 10-22-0 DJECT EFR REC WOOK ST.		LIBBY ASSESTED PROJECT EPA REL 8 DEMONSTONS 649 KT. X 12 FT. CONSTRUCTION PACKED SOIL PRIMETER: RESIDENTIAL OLOGO CS- 18018 E
	CS- 18017 SP. 1:4436 DUSIBLE VERMILLULTE IN GRASS AT N.E. CORNER OF ALLEY ASSOCIATED WITH 204 CALIFORNIA AVENUE DECONTAMINATED PER SAP 3) FSDS++CSS-S-006124 B) GPS++TZE DZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	MAIN AVE.	O lad' 150' O 200 W. FLOWER S.	0	DNO VISIBLE VERNKULTE DSAMPLING EDUIPMENT B OECONTAMINATED PER SAP DFS DS # CSS-S-006124 DGB # TZF10223 ADDITIONAL NOTES: NONE LONG ALLEY, REQUIRED GREATER THAN A FIVE- POINT COMPOSITE 150' SOO' SOO'

建筑器等

Location ALEY#9 119 Date 10-22-03 Project/Client LIBBY ASBESTOS ROJECT MOMER 14.15 ON SITE ALLEY 91 CONSTRUCTION! PACKED SOIL SEMET DIMENSIONS: 4 POFTX IS FT PERIMETER: RESIDENTIAL CS- 18019 5 1901 SP- 124438 1500 O NO VISIBLE VERMILLATE @ SAHRING-EQUIPMENT IS DECONTRMINIMED PER SAP 200 3 GPS# TZG10227 @ FSDS# CSS-5-006725 २८७'. ADOTTIONAL NOTES: LANG ALLEY, REQUIRED ELECTIF ىھجى SESSAMPLE POINTS -350 4000 Y50^ WOAK ST. DINID SPIEUMAD. - 10.22.03 - Davidale

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	15° AUEY#100	Da	10-22-03
	LIBBY ASSES	Tes those	C ANKAR
	- 35 (0-22-63 -	•	
	16147 ON SITE ALLEY#100	1/ V 5/2	id ST
	DIMENSIONS: 249FTX18FT	1	
	SOIL AND GRAVEL		
(PERIMETER RESIDENTIAL		
	***	S	60'
	Eg CS- 18343		
D.W.C.	CS- 18343 SP- 124442	∄	· · ·
1 :	1 No VISIBLE VERMINUTE	٤ \	
	(SYMPHAR EARLING IC	'هها. ا	
	DECONTAMINATED PERSAP	0	\ -3
	(3) FSDS # ESS-5-006126	-	
((GPS# T2K10223		
	AUDITIONAL MOTES: NONE		20,
	7		
	5.72.63		205
4			S ·
4			
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		 ena	
	DAVID SPIECMAN - 10.21	03-Davil	1 Saich

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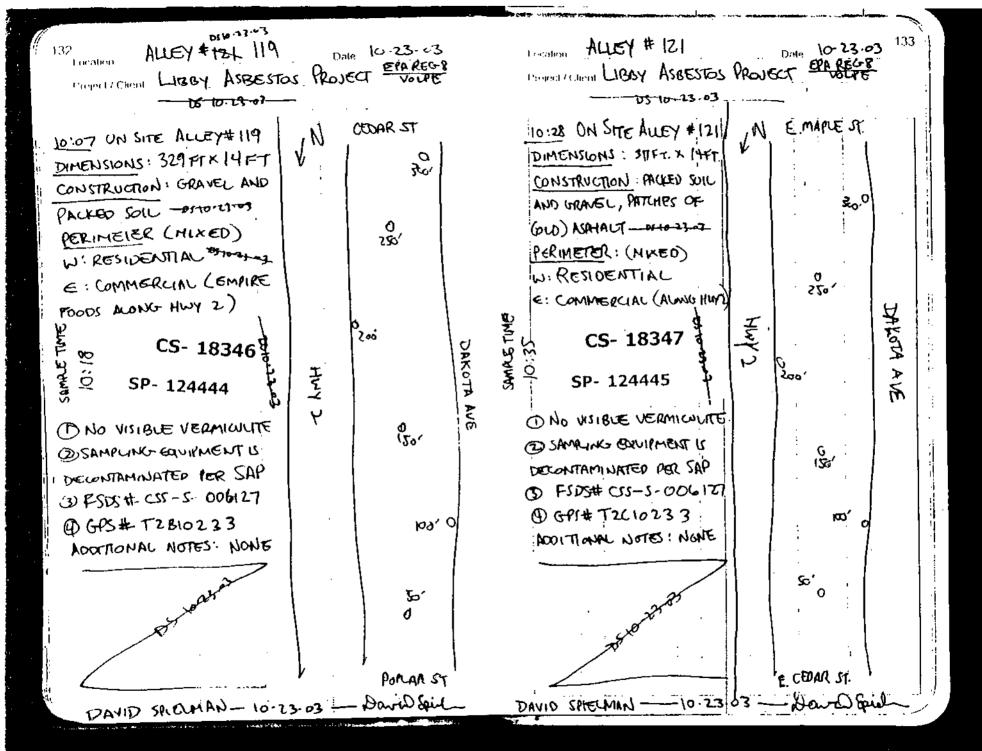
ALLEY # 101 Date 10-23-03 EPA REG-8 Project / Chent LIBRY 09:10 ON SITE ALEY#101 LARCH T MMENSIONS: 306 FT. X14 FT. CONSTRUCTION: VERY DEGRADED ASPHALT, SOFT, ATHOLES, AT LEAST 4" TAICK. PERIMETER RESIDENTIAL ONO VISIBLE VERMICULTE IN THE AREA - 05 10-EE-DEURADED ASPHAUT PANGMENT @ NO SAMPLING REQUIRED & ZYBLIA GUAY GO 3 ADOTTIONAL NOTES! NEWS DAKGTA AVE DAVID SPIELMAN. Devel freh

10.23.03

130 AUEY# 102	Onle 10.21.07	ALLEY \$118	10-23-03 131 70 1000 m en rec-8
Princil Chan LIBBY ASBESTOS	PROJECT VOLPE	LIBBY ASPECTOS	PROJECT VOLPE
-D5-10-27-23-		DS 10 · 13 -2	
ì	daleam st.	· · · · · · · · · · · · · · · · · · ·	POPLAK ST
09:39 ON SITE ALLEY \$102	NI \	01:54 ON SME ALLEY#118	N
DIMENSONS: 3035 × 14FT	300	DIMENSIONS: 336FTX14FT	J. 1
CONSTRUCTION : PACKED SOIL	, , , , , , , , , , , , , , , , , , , ,	CONSTRUCTION: ASPHALT PAVED	
AND GRAVEL - OFIO -35-69.		WITH GRAVEL FILL FOR	
PERIMETER: RESIDENTIAL	9	HISTHOLES - FAIR CONDITION	
	250	I ERINCIER: (MIXED)	
COPEN GRASS YARD ON TO		W : RESIDENTIAL - ACTO TO	
l w	4	= COMMERCIALLALONG HUY]	, , , , , , , , , , , , , , , , , , ,
E CS- 18345 }	ألمر الم	ON VISIBLE VERMICULTE	ASPHACT SOR
R&	1200 STR	(1) 12 VI 1900 V CIO ROS CIV	1 / 1 / Spp. Spp. Spp.
CS- 18345	1 1 1	(2) NO SAMPLING REQUIRED ON	~ ~ [2]
•	1 1 1	· · · · · · · · · · · · · · · · · · ·	4 / 3 / 6
ONO VISIBLE VERMICULITÉ	\	ADDITIONAL NOTES : NONE	1 1 2
EDSAMPLING EQUIPMENTIL	120.		
DECONTAMINATED AS PER SAP			
3) PSDS IF C55-5-026127		/: \	
@ GPS# TZA10233			
ADDITIONAL NOTES NONE		No.	
	100' 0	Jan 2 . \ /	
3		<i>y</i> 1	
1 Strange			
185	So'O		
		/	
	}	/ 1	BAUANST
	LARCH ST		
DAVID SPIEMAN-10-23-03	s DavilSpidn	DAVID SPIELMAN - 10.23.03 1	- Bird Sail

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ALLEY# 103 Daie 10. 23 - 03 137 EPA REG-P PROJECT [0-23-01 LARCH 31-13:25 ON SITE ALLEY #103 VN DIMENSONS : 303FT × 13FT CONTTRUCTION: PACKED SOIL AND GRAUEL. PERIMETER RESIDENTIAL SAMPLETIME CS- 18351³ SP- 124448 JAN TALL 1 No VISIBLE VERMILLY LITE DAKOTA AVE 1) LEWING SUNDANG (D) DECONTAMINATES PER TAP B O 3 FSDS# CSS-5 - 000129 @ GPS# TZF10233 ADOITHNAL ACTES: A SMALL SOIL PILE WITH TRACK WIBLE VERMIC IN THE *ه*_0 GRAD STRIP AT 360 -21-23 HE conver of ALLEY, INSOE PPTY OF 413 E. SPRICE ST. ص ري. teroffs 613 613 \$\$ +0.93.03 E. SARVLE DAVE STIELLAN Let feit 10.23.03

18E(1-8 18E(1-8 19E

T0

Too ALLEY # 105 100 #YJUEY AUEY# 106 Date 10-23-03 141 Librar China Library Assession Project EDARGG & Propositional LIBBY ASSESTOS PROJECT ->5-10-23:03 15:06 ON SITE ALLEY HICK 14:45 ON SITE ALLEY \$105 BALLAY ST LARCH ST. CARCING LOT DIMENSIONS: ZOIFFX 12PT DIMENSIONS 342 ET. XISEI. CONSTRUCTIONS PACKED SOIL CONSTRUCTION: PACKED JOIL AND GRAVEL - OF 10-12-03-0 °280' PERMETER: RESIDENTIAL હું PERIMETER : RESIDENTIAL 150 CS- 18354 CS- 18355# SP- 124453 SP- 124452 SUBJANTUE POINTS ONO VISIBLE VERMILLITE 10 NO VISIBLE VERMIWHITE DUISLIANA DISAMPLING EQUIPMENT IS STAT! @ SAMPLING EQUIPMENT U DECONTAMINATED PER JAP DECONTAMINATED PER SAP 3 F505# C55-5-006130 B FSDS# C55-5-006130 100 (PGRS# TZJ10233 900PS # TR. TZI10233 ADDITIONAL NOTES: NONE loo' ADDITIONAL NOTES: NONE Q. 501 LARRH JT E. STRICE ST. DAVID SPIEUMAN - 10-23.03 - David find DAVID SPIELMAN -

142 Location ALLEY # 115 Project / Client LIBBY ASBESTO	10-23.03 DE PROJECT VOLPE	Location ALLEY# (16 Project/Client L1884 Assessos	PROJECT FOR RG-8
15:24 ON SHE ALLEY \$115 C DIMENSONS: 339FT X 16FT P CONSTRUCTION PACKED SOIL P AND GRAVEL - BETO 28-3 PERIMETER PESIDENTIAL P ET CS- 18356	200'	DIMENSIONS 328 FT 15FT CONTRUCTION GRAVE LAND BACKED SOIL TO 1020-3 PERIMETER (RESIDENTIAL) CS- 18357	DA AR F (LEAINE)
DECONTAMINATED PER SAP	C 700' C 700'	SP- 124455 SP- 124455 D'HEANY USIBLE JERMIC IN CRASS ALONG AUEY AT HORTH END, BUTH SIDES, ASSOCIATED HATH 1406-BIAM AND ADDRESS	CONSIANA AVE
ADOITIONAL NOTES: NONE	100 O	HOUSE (100 BLOCKETS, HUXON HHO?) ILLOU UTAH, AND HUI COULLIANA AVENUEL -AUG, CLEANUP/EXCAVATION UNDERWAY AT SW GANERIE THE ALLEY — 05-10-23-03	14010 190, 6 9
DI DAVID SPIELMAN — I	BAWAN ST Los 25.03-03-05.5.0	DSAMPLIAGE COVEMENT IS DECONTAMINATED A PER SAP OXFSOSAT CUS-5-006131 DAVID SPIELMAN 10-23	ADRIAR ST

er erou NA

DAVID SIIELMAN

23.03 - David Sail

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LIBBY ASBESTOS PROJECT	10-24-0 FA REG-8/VOI		ALLEY# 114 LIBBY ASBESTES PROJECT	1 '	10-24-0 10-24-01 10-24-01	
DIMENSIONS 340FT X 14FT DIMENSIONS 340FT X 14FT CONSTRUCTION: ASPHALT PAVED FAIR CONDITION, GRAVEL COVER/HOLE FILL AMOUNTS PERIMETER RESIDENTIAL DNO VISIBLE VERMICLUTE IN THE AREA AMOUNTE ONO SAMPLING REQUIRED	POPLAR ST	NOTANA AVE	DIMENSIONS: 330FTX12FT CONSTRUCTION: PARTIALLY PAYED (15t 90FT. FROM NORTH 810E) WITH ASHAD -REMAINDER & PACKED SOIL AND GRAVEL TOZYO PERIMETER: RESHDENTIAL BY CS-18361 BY CS-18458 DNO VISIBLE VERMILLY DECONTRAMINATED AS PERSO DECONTRAMINATED AS PERSO DGPS# T2B10243 ADOPTIONAL NOTES - NO SAMPLE COLECTED AT THE PAYED PORTION OF THE AUG	LOUISIANA AVE	CEDAR ST POPLAR ST	ではれない。など
DIVID SPIEMAN — 163	24-03 - Davala	pilhen	DAVID SPLELMAN- 10-	2403	- Down Oph	Jr.o.

DIND VISIBLE VERMICULITE DECONTAMINATED AS PER SAP DECONTAMINATED AS PER SAP DESDS# CSS-S-006132	fog Al		1303 MONTANA NE
CS- 18362 SP- 124459 SP- 124459 DINU VISIBLE VERMICULITE DISAMPLING EQUIPMENT IS DECONTAMINATED AS PER SAP	MONTANA AUG	CS- 18363 & SP- 124460 O VISIBLE VERMILLITE ALONG GRASS AT NO CONTERY, IN YARD OF 1303 HASH INTER (MED" CONCENTRATION)	MONTANA AVE 100 200 200 200 200 200 200 20

10-24-03 ALLEY 11-108 LIBBY ASBESTOS PROJECT EPAREC-8/Volpe 14:00 ON SITE ALLEHIOS DIMENSIONS 267FT X14FT (E.SPRUCE ST.)
RESIDENTIAL CONSTRUCTION PACKED SOIL AND GRAVEL +110-24-43 REPORTER: RESIDENTIAL 0 CS- 18364 SP- 124821 600 OND VISIBLE VERMICULITE 3 SAMPLING EQUIPMENT ₹ I'L DECONTAHINATED PER SAP 501 Syamy 3 FSDS & CSS-S-006133 \$ GPS # TZE10243 AUDITIONAL NOTES: NONE LARCH ST DAVIC SAELMAN - 10-24.03-

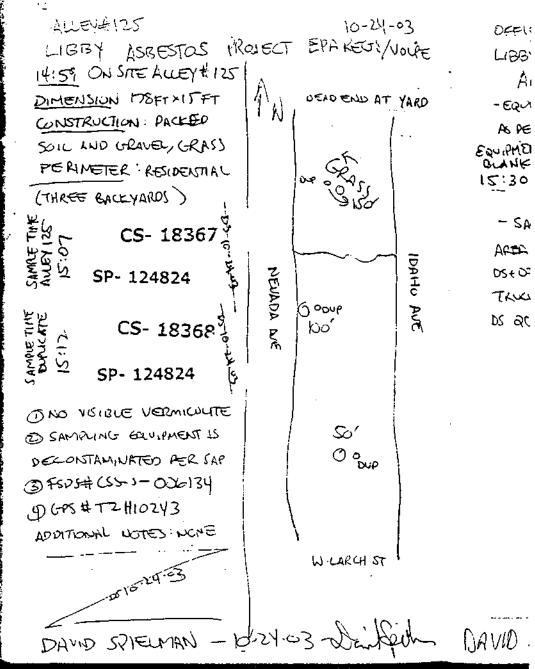
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12		•	
ALLEY 4110		10-2	-Y -03
LIBBY ASSESTED PR	تراور	T EPA REC 8/1	
14:14 ON SITE LUEY#110	• i	<i>t</i>	NOCHE
DIMENSIONS 346 x 12 FT	IN	E BAUSAM ST	
	1.7		
CONSTRUCTION : PACKED	V		1
BOIL AND GRAVEL	1	35	1
BERINEIEL GENOEM	IAN	2501	
CS- 18365		1	1 .
'불명 CS- 18365			1
SP- 124822		G, 00.	1
J. 12.7022 P		-0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1) VISIBLE VERMICULITE	-		
IN GRASS ALONG N.E.	\hb		70
CONNER OF MUEY, OUTS WE	HANTAND AVE	, ,	WXS HING-TON
FENCED GARDEN (FULL	3	150'	7.7
OF VERMICULIED AT	3	,30	ž
1212 MONTANA AVE.	1 2	\	
DSAMPLE EQUIPMENTIS			
DECENTAMINATED PER SAP		100' 0	
3) FSDS# CSS-006133.			
4 GPS# TZFIOZY3	300		!
ADDITIONIAL NOTE):	TANALINA WALLEN	o ^{\$0} '	
NEWWITHER ONDER	Þ		
VERY THICK GRISS		E. LAREH ST	
- 10uly: 13	I	TARGH 185	ĺ
	1	3510~24.	3
DAVID SHEUMAN - 10.	- 24 - 0	1.20° A-50	b .

, ALLEY # 124			10-75	(.o <u>3</u> '
LIBBY ASSESTOS PROJEC		SPA R	EG8/19C	$\alpha \in \mathbb{R}$
14:35 ON SITE ALVEY# 1	24	\	4. BALSAM	2.1.
DIMENSIONS 357 FT X14FT		11]	
CONSTRUCTION PACKED SOIL		V	}	
AND GRAVEL - OS 10-24	_ــره		[' '	
PERIMETER RESIDENTIAL	 -		0	
हैं 📚 CS- 18366 है	.		5 291	
CS- 18366 SP- 124823	E.	MAIN	20-41	iDAH0
1 VIS IBUS VERMICULITE IN GO		₹ ¥5		0 A
AND IN ALLEY (ON SURFACE)			150.	[Et
ASSOCIATED WITH "HEAVY"			120.	737
CINCENTRATION IN CARDEN	i 1	1		\$ E
303 W. LARCH - FENCE POSTS				કિંદ
UP BUT NO FENCE - VERMILL	utt		(65)	ीलभार १५ विकास १९०५
ALSO VISIBLE IN GARDEN (SEE	5			-2
SCETCH) MID-WEST SLOE OF				
AWEY BUT HONE ON GRASS			Ó	
IN ALLEYWAY - BHOZY W)			28.	
@SAMIUNG EQUIPMENT IS	Ţ	303	A A	
PAR SEGULIMATIONS	_	V-LARCH	, a	ļ
\$ 47.05# (25-2-82) #2077 @		· W	. EARCH ST	
@ GPS # TZG 1024 3134				

DAVID SPIELMAN - 10-24-43 - David Spilon



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Appendix B Completed Soil Field Sample Data Sheets



Sheet No.: CSS-S-	neet No.:	CSS-S-	006.071
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FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA3 Field Logbo	ook No: 100289	Page No: 22/23/2/12	ing Date: 10-15-03
Address: The CITY OF	LIBBY ALLEY FOW	ner/Tenant: CITY OF	LIBBY
Business Name: NA			
Land Use: (circle) Residential	School Commercial	Mining Roadway (
Sampling Team: (circle) CDMD	MACTEC Other	Names: 74:1131.	ANO/SPIECMAN

· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		Υ
Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17947	CS- 17948	CS- 17949
Location ID	SP- 124353	SP- 124354	SP- 124355
Sample Group	ALLEY	ALEY	ALLEY
Location Description (circle)	Back yard Front yard Side yard ALLEY Driveway Other	Back yard Front yard Side yard ALLEY Driveway	Back yard Front yard Side yard ALLEY Driveway Other
Category (circle)	FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FD ofField Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soft Other	Surface Soft Other	Surface Soil Other
Type (circle)	Grab Comp. # subsamples(Grab Comp # subsamples _5	Grab Comp. subsamples 5
Sample Time	15.11	15:40	16:37
Top Depth (in.)	0	ව	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	NO L.V. IN SAMPLE	No L.V. IN SAMPLE	BD
	Alley #1	Alley#2	H11ey #5
Entered (LFO) $ hgg $	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion (Provide Initials) Completed by 05 QC by 2

101503 101503

heet No.:	CSS-S-	006072

Scenario No.: NA Field Logbook No:			oling Date: 10-15	-33
Address: CITY OF LIBBY ALLEY	Owner/Ter	ant: CITY UF	CIBSY	<u> </u>
Business Name: NA				
Land Use: (circle) Residential School	Commercial Mini	ng Roadway	Other ()
Sampling Team: (circle) CDMD MACT	TEC Other	Names: ZAM82	NAMU SECMAN	

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17950	CS- 17951	
Location ID	SP- 124356	SP- 12/357	
Sample Group	ALLEY	AUEY	
Location Description (circle)	Back yard Front yard Side yard Driveway Other AUE/#6	Back yard Front yard Side yard Driveway Other ACCY	Back yard Front yard Side yard Driveway Other
Category (circle)	FD of Field Blank (lot or equipment)	FD ofField Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise acced)	Surface Soil Other	Other	Surface Soil +
Type (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grab Comp. # subsamples
Sample Time	17:10	17:16	
Top Depth (in.)	0	0	
Bottom Depth (in.)	6	Ĺ	
Field Comments Note if vermiculite is visible in sampled area	NO L.V. OBSERVED	NO L.V. DEJERVED IN SAMPLE Alley #7	BD
Entered (LFO)	CUIEU#C Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion	Completed by N	OCH J) Z
(Provide Initials)	Completed by 111	QC 0y 4.7. 22



Sheet No.: CSS-S- 005:00

Scenario No.: NA	Field Logbo	ook No: <u>10</u>	0289	Page No <u>: 3</u>	0 ~ 32 . San	pling Date:	10.19.03
Address <u>: City of Lib</u>	by Alley		Own	er/Tenant:	City of Lib	<u>by</u>	
Business Name: NA							
Land Use: (circle) 🤻	esidenual	School	Commercial	Mining	Roadway	Other ()
Sampling Team: (cir	cle) CDM	MACTE	C Other	Nan	nes: Danny I	Zambrano/E	Dave Speilman

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17952	CS- 17953 %	CS- 17954
Location ID	SP- 124358	SP- 124359	SP- 124360
Sample Group	Alley # 7	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other Alley	Back yard Front yard Side yard Driveway Other Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FD of	FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Other	Surface Soil Other
Type (circle)	Grab Comp subsamples	Grab Comp # subsamples	Grab € wmp. # subsamples
Sample Time	10:16	10:35	11:10
Top Depth (in.)	0	0	0
Bottom Depth (in.)	. 6	6	6
Field Comments Note if vermiculite is visible in sampled area	Alley # 8 Vermiculite observed: yes onno	Alley # /26 Vermiculite observed: yes or (10)	Alley #
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion (Provide Initials)	Completed by Di	QC by D.Z
(11071de mindis)	_ 	

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbook No:_	100289	Page No <u>:3</u>	<u>५-५७ </u> San	ipling Date:	10/16/03
Address <u>: City of Lil</u>	bby Alley	Own	er/Tenant:	City of Lib	<u>ıby</u>	/ /
Business Name: NA						
Land Use: (circle)	(esidential School	Commercial	Mining	Roadway	Other ()
Sampling Team: (cir	rcle) CDM MACT	EC Other	Nar	nes: Danny 2	Zambrano/D	ave Speilman

Data Item	Sample 1	Sample 2	Sample 3
Index ID	A.		
Location ID	CS- 17955	CS- 17956 (S) - SP- 124382 (C)	CS- 17957 SP- 124383
Sample Group	Aliey	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	. Surface Soil Other
Type (circle)	Grab Comp. # subsamples	Grab ©omp. ≠ subsamples	Grab Comp # subsamples
Sample Time	11:35	11:55	1320
Top Depth (in.)	0	00	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	Alley # Vermiculite observed: ves or to	Vermiculite observed resorting	Alley #
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion (Provide Initials)	Completed by DZ	QC by <u>0</u> 5
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10.10.03

Sheet No.: C\$S-\$-	
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CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbook No:_	100523	Page No <u>: 3</u>	<u>8-40</u> Sam	ipling Date:	10/16/03
Address <u>: City of Lil</u>	bby Alley	Own	er/Tenant:	City of Lib	<u>oby</u>	, ,
Business Name: NA	L					
Land Use: (circle) F	Residential School	Commercial	Mining	Roadway	Other ()
Sampling Team: (cir	role) CDM MACT	EC Other	Nan	nes: Danny 2	Zambrano/D	ave Speilman

	, <u></u>	· · · · · · · · · · · · · · · · · · ·	
Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17958	CS- 17959	CS- 17960
Location ID	SP. 124384	SP- 124385	SP- 124386
Sample Group	Alley	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other Alley	Back yard Front yard Side yard Driveway Other Alley
Category (circle) (FD of Field Blank (lot or equipment)	FS) FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	Surface Soils Other
Type (circle)	Grab Comp. y subsamples 5	Grab Comp # subsamples 5	Grab Comp.# subsamples
Sample Time	1352	1412	14:28
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	б	6
Field Comments Note if vermiculite is visible in sampled area	Alley #/3 Vermiculite observed: yes o(no)	Alley # Vermiculite observed: yes or	Alley #/_5 Vermiculite observed: yes oknô)
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

	For Field Team Completion (Provide Initials)	Completed by 2	QC by AS
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10.10.03

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100289 Page No: Sampling Date: 10/16/03

Address: City of Libby Alley Owner/Tenant: City of Libby

Business Name: NA DI 10/16/03

Land Use: (circle) Residential School Commercial Mining Roadway Other ()

Sampling Team: (circle) CDM MACTEC Other Names: Danny Zambrano/Dave Speilman

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17961	CS- 17962 €	CS- 17963
Location ID	SP-12436 SP- 124387 いいいい	SP- 124387 √	SP- 124388
Sample Group	Ailey	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other Alley	Back yard Front yard Side yard Driveway Other Allev	Back yard Front yard Side yard Driveway Other Alley
Category (circle)	FDSF CS-17960 Field Blank (lot or equipment)	FD ofField Blank (lot or equipment)	FD ofField Blank (lot or equipment)
Matrix Type (Surface soil unless other wise sound)	Surface Soil Surface Soil	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp → subsamples 5	Grab Comp. 3 subsamples 5	Grab Comp. # subsamples _5
Sample Time	1432	1459	16:06
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	Alley # 26 15 Vermiculite observed: yes of no RESIDENTIAL AREA	Alley # 16 Vermiculite observed: yes or 10 RESIDENTIAL AREA	Alley # Vermiculite observed: yes or and commercial AREA
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion Completed by DZ QC by \(\int \subseteq \
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CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logb	ook No:	100289	Page No <u>: 1</u>	45/42 Sam	pling Date	: <u>/0//</u>	16/03
Address <u>: City of Li</u>			Owr				/	,
Business Name: NA	L							
Land Use: (circle)(F	(esidential)	School	Commercial	Mining	Roadway	Other ()
Sampling Team: (cir	rcle) CDM	MACTI	EC Other	Nar	nes: Danny 2	Zambrano/	Dave Sp	eilman

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17964	CS- 17965	CS- 17966
Location ID	SP- 124389	SP- 124300 N	SP- 124391
Sample Group	Alley	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other Alley	Back yard Front yard Side yard Driveway Other Alley	Back yard Front yard Side yard Driveway Other: Addey
Category (circle)	FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)
Matrix Type (Surface toll utiless other wise noted)	Surface Soil Other	Surface Soth Other	Surface Soil
Type (circle)	Grab Comp# subsamples Z	Grab Comp. subsamples 2	Grab Comp. # subsamples
Sample Time	/632	16:29	17:10
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	Alley # Vermiculite observed: yes onto MIXED RESIDENTIAL + COMMERCIAL	Alley # 127 Vermiculite observed: yes or of MixED RESIDENTIAL 46MMERCIA ASPHALT PAINT AT ENDITOR THANK SPICEY	Alley # 128 Vermiculite observed: yes or (10) MIXEO RESIDENTIAL 1 COMMERCIAL AS THACT PAVED AT ENT END
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

(Provide Initials)	For Field Team Completion (Provide Initials)	Completed by D.Z.	QC by Of
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CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100289 Page No: 48 Sampling Date: 10.16.03
Address: City of Libby Allex 318 LouisiANA AVE Owner Cenano City of Libby ps 10-16-03
Business Name: NA
Land Use: (circle) Residential School Commercial Mining Roadway Other (NA)
Sampling Team: (circle) CDM MACTEC Other Names: Danny Zambrano/Dave Speilman

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17967		
Location ID	BB-000001		
Sample Group	BLANE Alley OSIONES	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other Alley NA PS 10-16-3	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FS FD of	FS FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Otto: シャルン	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grab Comp # subsamples
Sample Time	17:28		
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	Vermiculite observed: yes or no Pricor EQUIPMENT BLANK	Alley # Vermiculite observed: yes or no	Alley #Vermiculite observed: yes or no
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion (Provide Initials)	Completed by DS	QC by D.Z
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CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbook No: 10028	19 Page No <u>50-52</u> Sam	pling Date: 10/17/63
Address: City of Lib	bby Alley	Owner/Tenant: City of Lib	by
Business Name: NA	me 1/21/2/43		
	Cesidential School Comm	ercial Mining Roadway	Other ()
	rcle) CDM MACTEC Otl		·
• •			· /
Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17968	CS- 17969	CS- 179~0
Location ID	SP- 124392	JP- 124393	SP- 124394
Sample Group	Alley	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Allev	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FS FD of Field Blank (lot or equipment)	FD ofField Blank (lot or equipment)	FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	Ourface Soil Other
Type (circle)	Grab Comp→ subsamples	Grab Comp # subsamples 2	Grab Comp. # subsamples
Sample Time	09:40	09:53	10:45
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	Alley # 2-3 Vermiculite observed: yes or 100	Alley # 24 Vermiculite observed: yes or no PARTIALLY PAVES ALLEY	Alley # <u>29</u> Vermiculite observed: yes or do
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

Completed by DZ

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QC by

For Field Team Completion

(Provide Initials)

Scenario No.: NA	Field Logbook No:	100239	56,57,58 Page No:	Sampling Date:	10/17/03
Address: City of Lib	by Allev	Ow	ner/Tenant: <u>City c</u>	of Libby	/ /
Business Name: NA	3، ۱۰،۱۲،۰۵				
Land Use: (circle)	esidential School	Commercial	Mining Roads	vay Other ()
Sampling Team: (circ	ele CDM MACT	EC Other _	Names: Da	nny Zambrano/D	ave Speilman

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17971	CS- 17972	CS- 17973 ∜ \$
Location ID	SP- 124395	Sp- 12/396	SP- 124397
Sample Group	Alley	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FD ofField Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Cother	Surface Soil Other
Type (circle)	Grab Comp # subsamples 2	Grab Comp. subsamples 2	Grab 32 10/1703 Comp # subsamples 2/3
Sample Time	11:13	11:42	13:51
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	Alley # Vermiculite observed: yes or 100	Alley # 3/# Vermiculite observed: yes or no	Alley # 32#
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion	Completed by 1 .Z	0C by 0.5
(Provide Initials)	Completed by 11-22	40 01 103 L

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbo	ok No: 10	२७२४९	Page No: 62	Sampling Date:	10/17/03
Address: <u>City of Li</u>	bby Alley			ner/Tenant: <u>City c</u>		
Business Name: NA	7					
Land Use: (circle)	Residential :	School C	Commercial	Mining Road	way Other ()
Sampling Team: (ci	rcle) CDM	MACTEC	Other	Names: Da	nny Zambrano/Da	ıve Speilman

			
Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17974	CS- 17975	CS- 17976 💥
Location ID	SP- 124398	SP- 124399	CS- 17976 SP- 124 '0C
Sample Group	Alley	Ailey	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other Alley	Back yard Front yard Side yard Driveway Other Alley	Back yard Front yard Side yard Driveway Other Alley
Category (circle)	FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soits Other	Surface Soft (Surface Soil Other
Type (circle)	Grab Comp. # subsamples	Grab Comp. \$ subsamples 5	Grab Comp# subsamples5_
Sample Time	15:47	16,20	17/0
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	б	6
Field Comments Note if vermiculite is visible in sampled area	Alley # 42	Ailey # 43 Vermiculite observed: yes or 26	Alley # <u>44</u> Vermiculite observed: yes or(10)
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion	Completed by DS	OChy DZ
(Provide Initials)	Completed by 355	QC 07_122

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Scenario No.: NA Field Logbook No: 10,7289	Page No: 62-65 Sampling Date: 10/17/03
Address: City of Libby Alley 3,8 Louis IANA NE Ow	
Business Name: NA PS 13-17-63	95 (# 17.43 95 (# 17.43
Land Use: (circle) Residential School Commercial	
Sampling Team: (circle) CDM MACTEC Other	Names: Danny Zambrano/Dave Speilman

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17977		
Location ID	BAD 00000 1		
Sample Group	Bianis Alley	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Frontyard Sideward Driveway Other: Alley
Category (circle)	FS FD of	FS FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other SAND	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grab Comp. # subsamples
Sample Time	17:24		4.
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	Vermiculity observed: yes or no 8 12-17-63 BLAINK	Alley #	Alley # Vermiculite observed: yes or no
Entered (LFO)	Volpe: Entered Validated	Voipe: Entered Validated	Volpe: Entered Validated

For Field Team Completion (Provide Initials)	Completed by DS	QC by D.Z
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Scenario No.: NA	Field Logbook No:_	100289 I	Page No <u>: ১৪, ৬৭,</u> 7% Sampling Date:	10/18/03
Address <u>: Citv of Lib</u>	oby Allev	Own	er/Tenant: <u>City of Libby</u>	
Business Name: NA				
Land Use: (circle) R	esidential School	Commercial	Mining Roadway Other ()
Sampling Team: (cire	cle) CDM) MACT	EC Other	Names: Danny Zambrano/I	Dave Speilman

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17978	CS- 17979	CS- 17980
Location ID	SP- 124101 4	SP- 1244027	SP- 124403
Sample Group	Alley	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FS FD of Field Blank (lot or equipment)	FS FD ofField Blank (lot or equipment)	FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil	Surface Soil Other
Type (circle)	Grab Comp # sabsamples 5	Grab Comp.# subsamples _5_	Grab (Comp) # subsamples 5
Sample Time	1021	11:01	ルンタ
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	Alley # # # # # Wermiculite observed: (ves or no action 5.00 is 9 FT. EDGE of Accey	Alley #	Alley # 48 Vermiculite observed: Fesor no
Entered (LFO)	Volpe: Entered Validated	Voipe: Entered Validated	Volpe: Entered Validated

For Field Team Completion (Provide Initials)	Completed by	DZ_	QC by DS
			

Scenario No.: NA	Field Logboo	ok No: 1002	29 Page No	71,72,73 73 San	npling Date: <u>/</u>	0/12/03
Address <u>: City of Lib</u>	by Alley			nt: <u>City of Lit</u>		
Business Name: NA						
Land Use: (circle) R	esidential S	School Comm	nercial Mining	Roadway	Other ()
Sampling Team: (cir	cle) CDM	MACTEC O	ther N	ames: Danny	Zambrano/Dav	e Speilman

Data Item	Sample 1	Sample 2	Sample 3	
Index ID	CS- 17981	CS- 17982	CS- 17983	
Location ID	SP- 124404	SP- 124405	SP- 124406 N	
Sample Group	Alley	Ailey	Alley	
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	
Category (circle) (FS FD of	FS FD of Field Blank (lot or equipment)	FS) FD of Field Blank (lot or equipment)	
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	Surface Soll Other	
Type (circle)	Grab Comp. #3ubsamples 5	Grab Comp	Grab Comp.# subsamples	
Sample Time	1341	14:09	14:28	
Top Depth (in.)	0	0	0	
Bottom Depth (in.)	6	6	6	
Field Comments Note if vermiculite is visible in sampled area	Alley # 49 45 Vermiculite observed: yes or 10	Alley # SO	Vermiculité observed Jes et no ? Observed one Made One East side d'Alley NO LU IN SAMPLE	
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated	

For Field Team Completion	Completed by D.Z	OC by D
(Provide Initials)		(4-4)

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION · FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbook No: <u>//</u>	<i>20189</i> F	age No: <u>74-75</u> Sam	pling Date: <u>10</u>	112/03
Address <u>: City of Li</u>			er/Tenant: <u>City of Lib</u>	/	,
Business Name: NA	A.				
	Residential School)
Sampling Team: (ci	rcle CDM MACTE	EC Other	Names: Danny 2	Zambrano/Dave :	Speilman

Data Item	Sample 1	Sample 1 Sample 2	
Index ID	CS- 17984	CS- 17985	7
Location ID	SP- 124407	SP- 124468	13
Sample Group	Alley	Alley	Alley\ (it)
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FD ofField Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FS FD of
Matrix Type (Surface soil unless other wise noted)	Surface Soil	Surface Soit Other	Surface Soil Other
Type (circle)	Grab Comp. #subsamples 5	Grab Comp. # subsamples 5	Grab Comp. # subsamples
Sample Time	7446 1504	14:46	
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	Alley # 32 # 53 p5 13.03 Vermiculite observed: yes or 10	Alley # 5752 DS 10-15-03 Vermiculite observed: yes or no	Alley # Vermiculite observed: yes or no
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion (Provide Initials)	Completed by D.Z	QC by \(\frac{\frac}{\frac}}}}}{\frac{\fir}}}}}}{\frac{\frac{\frac{\frac{\frac}{\frac{\frac{\frac{\fir}{\fir}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac
(Provide initials)		

10:403

Data Ita-	Sa-ala 1	C	- 3	S1	
Sampinig Team. (cir	COM COM MACIEC O	riter IASII	тез. Баппу	Zamotano/Dave 3	penman
Sampling Team: (cir	cle) CDM MACTEC O	ther Non	nec: Danny	Zambrano/Dave S	neilman
	esidential School Comm		Roadway	Other ()
Business Name: NA	_				
Address <u>: City of Lit</u>	oby Alley	Owner/Tenant:	City of Lil	m. G.) vdc	
Scenario No.: NA	Field Logbook No: 1002	289 Page No:	Flo_San	npling Date: /C	/12/a3

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17986		
Location ID	AD-000001		
Sample Group	BLANK -Alley PS IN 18-15	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley BCANE	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FS FD of Field Blank (lot of equipment)	FS FD of Field Blank (lot or equipment)	FS PG of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other Soil	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grab Comp. # subsamples
Sample Time	15 : ३७		
Top Depth (in.)	0	0	0\
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	Vermicultie observed; yes or no	Alley # Vermiculite observed: yes or no	Alley # Vermiculite observed: yes or no
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Voipe: Entered Validated

For Field Team Completion	Completed by DS	QC by JRM
(Provide Initials)		400)



Sheet No.: CSS-S- 00611-4

Scenario No.: NA	Field Logb	ook No: <u>/</u>	00289	Page No <u>:79-30</u>	Sampling Da	ate: <u>/0/20/</u> 0	ح <u>ي</u>
Address <u>: City of Lil</u>	ob <u>v</u> Allev	<u> </u>	Own	er/Tenant: <u>Citv o</u>	<u>f Libby</u>		
Business Name: NA							
Land Use: (circle) F	Residential	School	Commercial	Mining (Roadw	Other (()	
Sampling Team: (cir	cle) CDM) MACTE	C Other	Names: Dai	nny Zambran	io/Dave Speilman	

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17987	CS- 17988	CS- 17989
Location ID	SP- 124409	SP- 124410	SP- 124411
Sample Group	Alley	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FD ofField Blank (lot or equipment)	FD of	FD of
Matrix Type (Surface soil unless other wise noted)	Surface Soil Sother	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp.# subsamples 5	Grab Comp	Grab 02 19/25/03 Comp. # subsamples 5 4
Sample Time	. 0923	0948	1015
Top Depth (in.)	0 '	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	Alley # 57 55 13 10.20.03 Vermiculite observed: yes ormo	Alley # 5 \\ Vermiculite observed: yes or 10	Alley # 56 OZN/20/03 Vermiculite observed: yes or 00
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion	Completed by $ / $	QC by NS
(Provide Initials)	Completed by 772	4c 0) 110



Scenario No.: NA	Field Logboo	k No: <u>/00 289</u>	Page No:	<u>\$3,35,5</u> 6 Sam	ipling Date:	10/20/03
Address <u>: City of Lil</u>	bby Alley		Owner/Tenan	t: City of Lib	<u>by</u>	/ /
Business Name: NA	\					
Land Use: (circle) F	Residential S	chool Commer	cial Mining	Roadway	Other ()
Sampling Team: (cir	rcle) CDM	MACTEC Othe	r Na	ımes: Danny 2	Zambrano/Da	ave Speilman

Data Item	Sample 1	Sample 2	Sample 3	
Index ID	CS- 17990	CS- 17991	CS- 17992	
Location ID	SP- 124412	59- 124413	SP- 124414	
Sample Group	Alley	Ailey	Ailey	
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Allev	
Category (circle)	FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FS FD ofField Blank (lot or equipment)	
Matrix Type (Surface soil unless other wase noted)	Surface Soil Other	Surface Soil Other	Surface Soil Other	
Type (circle)	Grab Comp. ∌subsamples <u>≤</u>	Grab Comp. → subsamples √	Grab Comp. 5 subsamples 5	
Sample Time	1058	100 14:01	14:22	
Top Depth (in.)	0	0	0	
Bottom Depth (in.)	6	6	6	
Field Comments - Note if vermiculite is visible in sampled area	Alley # 59 ## Vermiculite observed! yes or no AUNK-SINE FENCE/GADEN S 12 CHANED -	Alley # GO	Alley # <u># 62</u> Vermiculite observed: yes of 10	
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated	

(Provide Initials)



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Data Item	Sample 1	Sample 2	Sample 3	
Index ID	CS- 17993	CS- 17994	CS- 17995	
Location ID	SP- 124414 9 3	SP- 124415	52- 124 116	
Sample Group	Alley	Alley	Alley	
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	
Category (circle)	FS FD of CS-17科 ン Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)	
Matrix Type (Surface soil unless other wise noted)	Surface Soil (Surface Soil Other	Surface Soil Other	
Type (circle)	Grab Comp # subsamples 5	Grab Comp. # subsamples _5_	Grab Comp. # subsamples 5	
Sample Time	14:4	1438	1500	
Top Depth (in.)	0	0	0	
Bottom Depth (in.)	6	6	6	
Field Comments Note if vermiculite is visible in sampled area	Alley # <u>62</u> 000 Vermiculite observed: yes or 100	Alley # 63 # Vermiculite observed: VESTOR no SMALL STY IN CFASS AT SV2 CLENER OF ALLEY THE CHASE AS IN 2013	Alley # 6/# Vermiculite observed: yes or 60 72/2409	
Entered (LFQ)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated	

For Field Team Completion	Completed by D.Z	OC by [13
(Provide Initials)	Completed by 5-2	QC 07

Scenario No.: NA	Field Logboo	k No: <u>/00</u>	<u> 229 </u>	age No <u>: ^g</u>	9, 70,9% Sam	pling Date:	10/20/03
Address <u>: City of Lib</u>	by Alley		Own	er/Tenant:	City of Lib	<u>by</u>	
Business Name: NA							
Land Use: (circle) R	lesidential S	chool Co	nmercial	Mining	Roadway	Other ()
Sampling Team: (cir	cle) CDM	MACTEC	Other	Nan	nes: Danny 2	Zambrano/Da	ave Speilman

 _	_ 	<u> </u>	
Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17996	CS- 17997	CS- 17998 SP- 124419
Location ID	SP- 1244170	SP- 124413	SP- 124419
Sample Group	Alley	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FD of Field Blank (lot or equipment)	FD of	FS) FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	Surface Soil
Type (circle)	Grab Comp # subsamples 5	Grab Comp. ≠ subsamples(Grab Comp # subsamples
Sample Time	15:23	15:40	1630
Top Depth (in.)	0	0	· 0
Bottom Depth (in.)	6	6	⁻ 6
Field Comments Note if vermiculite is visible in sampled area	Alley # (64) Vermiculite observed: yes of 100	Alley # 65# Vermiculite observed: yes of ne	Alley # <u>66 ##</u> Vermiculite observed: yes or 100
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion (Provide Initials)	Completed by D. Z	QC by DT
		



Scenario No.: NA	Field Logbook No:🗹	<u> 20279 </u>	Page No <u>: 92, 93, 54,</u> Sam	pling Date: <u>/</u>	1/20/03
Address <u>: City of Lil</u>	bby Allev		er/Tenant: <u>Citv of Lib</u>	(,
Business Name: NA	A				
				Other ()
Sampling Team: (cù	rcie) CDM MACT	EC Other	Names: Danny 2	.ambrano/Dave	Speilman

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17999	CS- 18000	CS- 18001 \$
Location ID	So. 1.24470	SP- 124-21	AD-000001
Sample Group	Alley	Alley	-Alley NA
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway CUtter Affey NA
Category (circle)	FD of	FS FD of	FS FD of
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	Surface Soil Other SAND
Type (circle)	Grab Comp Ssubsamples 3	Grab Comp. # subsamples 5	Grab Comp. # subsamples
Sample Time	/653	17:14	/732 ·
Top Depth (in.)	0	0	. 0
Bottom Depth (in.)	6	6	- 6
Field Comments Note if vermiculite is visible in sampled area	Alley # 67# Vermiculite observed: yes or 100	Alley # <u>68 #</u> Vermiculite observed: yes or 60	Vermiculite observed: yes or no BLANK
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion	Completed by D.Z	OC by M
(Provide Initials)	Completed by 17 -2	QC 09



CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION * FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Fiéld Logbook No:_	(20289]	Page No: <i>96,975</i> 3Sam	pling Date:	10/21/03
Address <u>: City of Li</u>	bb <u>v All</u> ey	Own	er/Tenant: <u>City of Lib</u>	<u>pā</u>	/ /
Business Name: NA	A				
Land Use: (circle) F	Residential School	Commercial	Mining Roadway	Other ()
Sampling Team: (cù	rcle) CDM MACT	EC Other	Names: Danny 2	Zambrano/D	ave Speilman

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 18002 (3)	CS- 18003	CS- 18004
Location ID	5P- 12442: 0N	SP- 124423	CP- 12: 126 N
Sample Group	Alley	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Allev
Category (circle)	FD ofField Blank (lot or equipment)	FS	FS FD of Field Blank (lot or equipment)
Matrix Type ((Surface soil valess other wise noted)	Surface Soil Other	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp. ≇ subsamples 5	Grab Comp. # subsamples 5	Grab Comp ≠ subsamples _5
Sample Time	0922	0943	10:20
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	Alley # G9 Vermiculite observed: yes on 10	Alley # 70 ## Vermiculite observed: yes or 100	Alley # 7/# Vermiculite observed (Ves) or no ALDNIG CRASS AT NU CORNER OF ALLEY
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion	Completed by	OChi DS
(Provide Initials)	Completed by 132-	QC by COS

16.310.

	/03
Scenario No.: NA Field Logbook No: 100229	Page No: 101-104 Sampling Date: 10/21/03
Address <u>: City</u> of <u>Libby</u> Alley	Owner/Tenant: City of Libby
Business Name: NA	
Land Use: (circle) Residential School Commerc	cial Mining Roadway Other ()
Sampling Team: (circle) CDM MACTEC Other	r Names: Danny Zambrano/Dave Speilman

Data Item	Sample 1	Sample 2	Sample 3	
Index ID	CS- 18005	CS- 18006	CS- 18007	
Location ID	SP- 124425	5F- 124426	5P- 124427	
Sample Group	Alley	Alley	Alley	
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Affey	
Category (circle)	FS FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)	
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	Surface Soil Other	
Type (circle)	Grab Comp. # subsamples 5	Grab Comp # subsamples	Grab Comp. # subsamples 3	
Sample Time	//36	N 163103 14:32	. 15:03	
Top Depth (in.)	0	0	0	
Bottom Depth (in.)	6	6	6	
Field Comments Note if vermiculite is visible in sampled area	Alley #	Alley # 78 # Vermiculite observed veryor no HEAR DIG. 21-93 LARGE OTH VISIBLE VERTICULATION OF ALLEY ALONG THE CHASS	Alley # <u>7⁹</u> Vermiculite observed: yes o €	
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated	

For Field Team Completion	Completed by 0.7	2 R v420
(Provide Initials)	Completed by 17.72	1 40 07

Scenario No.: NA	Field Logbook No:	CC229_1	Page No <u>:/07-</u>	<i>109</i> Samp	ling Date: _	10/21/0=
Address <u>: City of Lit</u>	bby Allev	Own	er/Tenant: <u>Ci</u>	tv of Libb	<u>v</u>	
Business Name: NA	L					
Land Use: (circle) F	Residential School	Commercial	Mining Ro	adway	Other ()
Sampling Team: (cù	rcle) (CDM) MACT	EC Other	Names:	Danny Za	ambrano/Da	ve Speilman

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 18008	CS- 18009	CS- 18010
Location ID .	SP- 124428	SP- 124429	SP- 124430 NA
Sample Group	Alley	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FS FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise acced)	Surface Soil C	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp. # subsamples 3	Grab Comp.# subsamples _5_	Grab Comp. # subsamples 5
Sample Time	1521	1640	1709
Top Depth (in.)	Ö	0	0
Bottom Depth (in.)	6 -	6	6
Field Comments Note if vermiculite is visible in sampled area	Vermiculity observed: Veror no	Vermiculité observed (Pesor no ideas Concentration de la concentra	Vermiculité observed versor no
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

(Provide Initials)

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION · FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbook No:	100289	Page No <u>:/09-1/0</u> Sam	ipling Date: _	19/21/03
Address <u>: City of Lib</u>	oby Alley	Own	er/Tenant: <u>City of Lib</u>	<u>by</u>	′ /
Business Name: NA					
Land Use: (circle) R	Residential School	Commercial	Mining Roadway	Other ()
Sampling Team: (cir	cle) CDM MACT	TEC Other	Names: Danny 2	Zambrano/Da	ive Speilman

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 18011	CS- 18012	7
Location ID	SP- 12443110 0	AD -00000/90	
Sample Group	Alley	WHO? Attey Wank	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway (Other: Alley)	Back yard Front yard Side yard Driveway Other: Alley NA 31 15 . 21 - 3	Back yard
Category (circle)	FD of Field Blank (lot or equipment)	FS FD of	FS FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Son Other	Surface Soil Other Sans	Surface Soil Other
Type (circle)	Grab Comp. subsamples 5	Comp. # subsamples	Grab Comp. # subsamples
Sample Time	17:34	-12 x 10.21 53	
Top Depth (in.)	0	اللاسه، «نانديها	0
Bottom Depth (in.)	6	dir 167 & NIVE	6
Field Comments Note if vermiculite is visible in sampled area	Alley # <u>24 #</u> Vermiculite observed Fes or no	Vermiculité obsérved; yes or no	Alley # Vertniculite observed: yes or no
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion	Completed by D.Z.	OCH M
(Provide Initials)	Completed by 3744	QC 09

Sheet No.:	CSS-S-	006123
· — —		

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION . FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logb	ook No:	100289	Page No <u>:113 113, 114</u>) S	ampling Date:	10/22/03
Address <u>: City of Li</u>	<u>bby Alley</u>		Own	er/Tenant: <u>City of I</u>	<u>ibby</u>	
Business Name: NA	A			•		
Land Use: (circle) I	Residential	School	Commercial	Mining Roadway	Other ()
Sampling Team: (ci	rcle) CDM) MACT	EC Other	Names: Dann	y Zambrano/D	ave Speilman

		<u> </u>	<u> </u>
Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 18013	CS- 13014 💥	CS- 18015
Location ID	JP- 124432	SP- 124433	SP- 124434
Sample Group	Alley	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FS FD ofField Blank (lot or equipment)	FS FD ofField Blank (lot or equipment)	FD ofField Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil> Other	Surface Soil Other	Surface Soil Other
Type (circle)	Grab 32 19/24/03 Comp. # subsamples # 6	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5
Sample Time	0945	1008	. 10.25
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	Alley# 125 ##_ Vermiculite observed: yes or	Alley # 77 ** Vermiculite observed: yes or 10	Alley # <u>89</u> # Vermīculite observed: yes or 10
Eatered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion	Completed by A 7	00 111 05
(Provide Initials)	Completed by DZ	QC by <u>D5</u>



Sheet No.: CSS-S- ___006124

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION . FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbook No:_	100531	Page No:∠	<i>15,14,11</i> 7Sam	pling Date:	10/22/03
Address <u>: City of Lil</u>	oby Alley	Own	er/Tenant:	City of Lib	<u>p</u> à	/
Business Name: NA	L					
Land Use: (circle) R	Residential School	Commercial	Mining	Roadway	Other ()
Sampling Team: (cir	cle) CDM) MACT	EC Other	Nan	nes: Danny 2	Zambrano/D	ave Speilman

Data Item	Sample 1	Sample 2	Sample 3
Index (ID	CS- 18016	CS- 18017	CS- 18018
Location ID	SP- 124435	SP- 124436	SP- 124437
Sample Group	Alley	Ailey	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FD of Field Blank (lot or equipment)	FD ofField Blank (lot or equipment)	FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp. # subsamples 6	Grab Comp # subsamples 5	Grab Comp. # subsamples 1
Sample Time	710:49	1/16	11:51
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	. 6	6
Field Comments Note if vermiculite is visible in sampled area	Alley # 86 # Vermiculite observed: Vestor no ALONG GRASS IN MIDDLE EAST SIDE OF ALLEY	Alley # <u>90#</u> Vermiculite observed yes or no	Alley # <u>88 #</u> Vermiculite observed: yes or 10
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Co	mpletion	apleted by D. Z	OC by DI	
(Provide Initials)	Con	threted by 17.2	1 60 03 3 1	

${\it CONTAMINANT SCREENING STUDY/REMEDIAL\ INVESTIGATION\ .}$ FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbo	ook No: 💯	229 F	age No <u>: I</u>	1/2//23 arr	pling Date:	10/22/03
Address: City of Li	bby Allev		Own	er/Tenant:	City of Lib	<u>by</u>	
Business Name: NA	X						
Land Use: (circle) I	Residential	School C	Commercial	Mining	Roadway	Other ()
Sampling Team: (cir	rcle) CDM	MACTEC	Other	Nan	nes: Danny 2	Zambrano/D	ave Speilman

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS 18019	CS- 18020	CS- 18341
Location ID	SP- 124438	SP- 124439	SP- 124440
Sample Group	Alley	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise nated)	Surface Soil Other	Surface Soil Other	Surface Soil Other
Type (circle)	Grab ps 10.22-03	Grab 7 02 19/21/2 Comp. #-subsamples 9	Comp. # subsamples
Sample Time	05 10-22-103	15:50 10:43	- 1615
Top Depth (in.)	0	0	. 0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	Alley # Vermiculite observed: yes of Riv	Alley #	Alley # <u>96 ==</u> Vermiculite observed: yes or 10
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion	Completed by $\int Z$	OC by DS
(Provide Initials)	Completed by 17.2	QC 09

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL .

Scenario No.: NA	Field Logbook No:_	100289	Page No <u>:/24/26/</u> 6/Samp	oling Date: <u>/</u>	122/02
Address <u>: City of Lil</u>			er/Tenant: City of Libb	,	
Business Name: NA	A				
Land Use: (circle)	Residential School	Commercial	Mining (Roadway)	Other ()
Sampling Team: (cir	rcle) CDM MACT	EC Other	Names: Danny Z	ambrano/Dave	Speilman

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 18342	CS- 18343∫ \$	CS- 18344
Location ID	Sp- 124441	SP- 124442	CS- 18344 AD - 00000/
Sample Group	Alley	Alley	NA Alley 36 12:2-3
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Orher: Alley	Back yard Front yard Side yard Driveway Other: Alley NA p. 21 43
Category (circle)	FD ofField Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FS FD of
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	Surface Soil Other SAND
Type (circle)	Grab Comp. # subsamples 4	Grab Comp # subsamples	Grab Comp. # subsamples
Sample Time	- 1630	17:02	/7/7 -
Top Depth (in.)	. 0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	Alley # 97 === Vermiculite observed: yes or no	Alley # 100 Vermiculité observed: yes orifo	Vermicultie observed: yes or no
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion	Completed by , /). ス	OC by M
(Provide Initials)	Completed by 77.2	QC 09

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION · FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbook	(No: 100289_	_ Page No <u>:4</u>	30132,133 San	pling Date:	10/23/03
Address <u>: City of Li</u>	oby Alley	<u></u>	wner/Tenant	:: <u>Citv of Lib</u>	<u>ıbv</u>	
Business Name: NA	<u>.</u>					
Land Use: (circle) R	lesidential Sc	hool Commerci	al Mining	Roadway	Other ()
Sampling Team: (cir	cle) (CDM) N	AACTEC Other	Na	mes: Danny	Zambrano/Da	ave Speilman

Data Item	Sample 1	Sample 2	Sample 3	
Index ID	CS- 18345	CS- 18346	CS- 18347	
Location (D	SP- 124443	SP- 124444	SP- 124445	
Sample Group	Alley	Alley	Alley	
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	
Category (circle)	FD of	FD ofField Blank (lot or equipment)	FS FD of	
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	Surface Soil Other	
Type (circle)	Grab Comp. # subsamples 6	Grab Comp.# subsamples	Grab Comp. → subsamples _5	
Sample Time	0947	TO 13	10:35	
Top Depth (in.)	0	0	0	
Bottom Depth (in.)	6	6	6	
Field Comments Note if vermiculite is visible in sampled area	Alley # ### 103111 Vermiculite observed: yes or 100	Alley # Vermiculite observed: yes or@	Alley # 121 Vermiculite observed: yes or 10	
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated	

For Field Team Completion (Provide Initials)	Completed by D. Z	QC by PS
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CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION • FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbook No:	100229	Page No <u>:13</u>	4,135 Sam	pling Date:	10/23/03
Address <u>: Citv of Lit</u>	oby Alley	Own	er/Tenant:	City of Lib	<u>by</u>	/
Business Name: NA	.					
Land Use: (circle) F	Residential School	Commercial	Mining	Roadway	Other ()
Sampling Team: (cir	rcle) (CDM) MAC	TEC Other	Nam	nes: Danny 2	/ambrano/D	ave Speilman

Data Item	Sample 1	Sample 2	Sample 3	
Index ID	CS- 18348	CS- 18349	CS- 18350	
Location ID	SP- 124446	SP- 124446 SP- 124447		
Sample Group	Alley	Alley	Alley	
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	
Category (circle)	FD ofField Blank (lot or equipment)	FD of (lot or equipment)	FS FD 05 CS - 18349 Field Blank (lot or equipment)	
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	Sarface Soil Other	
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. #subsamples 5	Grab Comp. # jubsamples	
Sample Time	11:01	11:26	(1:34	
Top Depth (in.)	0	0	0	
Bottom Depth (in.)	6	6	6	
Field Comments Note if vermiculite is visible in sampled area	Alley # /22 Vermiculite observed: yes or no	Alley # <u>/20</u> # Vermiculite observed: yes or no	Alley # <u>i 2 0</u> Vermiculite observed: yes or no	
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated	

		
For Field Team Completion	Completed by D. Z	0.5
(Provide Initials)	Completed by	6c 93 102

10,33.03

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbo	ook No: <u>//</u>	<u> ۲۲۶۲</u>	age No <u>13</u>	8,132,137 Sam	pling Date:	10/23/03
Address <u>: City of L</u>	ibby Allev	· . -	Own	Tenant	: <u>City of Libl</u>	<u>p</u> Ā	
Business Name: N	A						
Land Use: (circle)	Residential	School Co	ommercial	Mining	Roadway	Other ()
Sampling Team: (c	ircle) CDM	MACTEC	Other	Nar	nes: Danny Z	ambrano/L	Dave Speilman

Data Item	Sample 1	Sample 2	Sample 3	
Index ID	CS- 18351	CS- 18352	CS- 16353	
Location ID	SP- 124448	SP- 1244-19	SP- 124450	
Sample Group	Ailey	Alley	Alley	
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley.	Back yard Front yard Side yard Driveway Other: Alley	
Category (circle)	FD of	FD of	FD of Field Blank (lot or equipment)	
Matrix Type (Surface soil unless other wase noted)	Surface Soil: Other	Surface Soil Other	Surface Soil Other	
Type (circle)	Grab	Grab Comp. # subsamples 5	Grab Comp. # subsamples	
Sample Time	ar. 71.4 13:45	14:05	14:2Gp	
Top Depth (in.)	0	0	. 0	
Bottom Depth (in.)	6	6	6	
Field Comments Note if vermiculite is visible in sampled area	Alley # 103 Vermiculite observed: yes or not	Alley # 104 Vermiculite observed: yes of no	Alley # _//7 Vermiculite observed (vestor no no hole of alley at 1719 from North end	
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated	

	For Field Team Completion (Provide Initials)	Completed by D. Z	QC by Ds
L	(Linaine miniais)		L



CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA - F	ield Logbook No:_	<i>70289</i> I	'age No <u>: ۱ٷ,۱۷۱,۱۷</u> -Sam	pling Date: _	10/23/03
Address <u>: City of Libb</u>			er/Tenant: <u>City of Lib</u>		/ / -
Business Name: NA					
Land Use: (circle) Res	sidential School	Commercial	Mining Roadway	Other ()
Sampling Team: (circle) CDM MACT	EC Other	Names: Danny 2	Zambrano/Dav	ve Speilman

Data Item	Sample 1	Sample 2	Sample 3
CS- 18354		CS- 18355	CS- 18356
Location ID	Location ID SP- 124452		SP- 124454
Sample Group	Alley	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driyeway Other: Alley
Category (circle)	FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FD ofField Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Cother	Surface Soil Other
Type (circle)	Grab 02 10/13/13 Comp # subsamples \$ 3	Grab Comp. = subsamples 5	Grab Comp. #subsamples 5
Sample Time	15:02	15:20	15:39
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	_
Field Comments Note if vermiculite is visible in sampled area	Alley # <u>/05</u> # Vermiculite observed: yes on o	Alley #	Alley ##1/5 Vermiculite observed: yes or 10
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

(Provide Initials) Completed by QC by US	For Field Team Completion (Provide Initials)	Completed by DZ	QC by DS
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CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION · FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbook No:	100.229	Page No <u>:1</u>	<u>#3-145</u> San	ipling Date: _	16-23/03
Address: City of Lib	by Alley	Оwт	ner/Tenant:	City of Lib	<u>bv</u>	, -
Business Name: NA						
Land Use: (circle) R	tesidential School	Commercial	Mining	Roadway	Other ()
Sampling Team: (cir	cle) CDM MAC	TEC Other	Nar	nes: Danny 2	Zambrano/Da	ive Speilman

Data Item	Sample 1	Sample 2	Sample 3	
Index ID	CS- 18357	CS- 18358	CS- 18359	
Location ID	Location ID SP- 124455		AD-000001	
Sample Group	Alley	Alley	DI 10-13 TAlley BUANK	
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Allev	Back yard Front yard Side yard Driveway Other: Alley NA P5. 23.23	
Category (circle)	FS FD ofField Blank (lot or equipment)	FS FD ofField Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)	
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	Surface Soil Other SAND	
Type (circle)	Grab Comp. # subsamples 5	Grab Comp. # subsamples	Grab Comp. # subsamples	
Sample Time	1559	163.2	17:10	
Top Depth (in.)	0	0	0	
Bottom Depth (in.)	6	6	6	
Field Comments Note if vermiculite is visible in sampled area	Alley # #5 # 1/6 # Vermiculite observed yes or no HEMY" CALENTRATION ANNE CRASS AT NORTH ENO F ALLEY	Alley # <u>/23</u> # Vermiculite observed: yes or no	Alley #	
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated	

For Field Team Completion (Provide Initials)	Completed by <u></u>	QC by W

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbook No:_	120292 I	Page No <u>:5,7,8</u> S	ampling Date: 👱	<u>0/24/03</u>
Address <u>: City of Lil</u>	oby Alley	Own	er/Tenant: <u>City of I</u>	<u>.ibbv</u>	,
Business Name: NA					
Land Use: (circle) F	Residential School	Commercial	Mining Roadway	Other ()
Sampling Team: (cir	cie) CDM MACT	EC Other	Names: Dann	y Zambrano/Dav	e Speilman

Data Item	Sample 1	Sample 2	Sample 3	
Index LD	CS- 18360	CS- 18361	CS- 18362	
Location ID	SP- 124457	SP- 124458	SP- 124459	
Sample Group	Alley	Ailey	Alley	
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	
Category (circle)	FD ofField Blank (lot or equipment)	FD ofField Blank (lot or equipment)	FS FD ofField Blank (lot or equipment)	
Matrix Type < (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil . Other	Surface Soil Other	
Type (circle)	Grab Comp. #Subsamples 5	Grab Comp. *subsamples *L	Grab Comp. # subsamples 5	
Sample Time	1020	-10:20	11:11	
Top Depth (in.)	0	0	0	
Bottom Depth (in.)	6	6	6	
Field Comments Note if vermiculite is visible in sampled area -	Vermiculite observed vesor no AUNG GRASI AT SE (ORUGE AND N.E. SIDE	Alley # 114 67 Vermiculite observed: yes ono	Alley # <u>i13#</u> Vermiculite observed: yes of no	
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated	

For Field Team Completion (Provide Initials)	Completed by D.Z	QC by 🚨
		

10.74.03

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION * FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbook No:	<i>100292</i> I	Page No <u>: 9777)</u> , Sam	ipling Date: .	10/24	1/03
Address <u>: Citv of Lib</u>			er/Tenant: <u>Citv of Lib</u>			
Business Name: NA	•					
Land Use: (circle) R	esidential School	Commercial	Mining Roadway	Other ()	
Sampling Team: (cir	cle) CDM MACT	EC Other	Names: Danny 2	Zambrano/Da	ave Speiln	nan

Data Item	Data Item Sample 1		Sample 3
Index ID CS- 18363		CS- 18364	CS- 18365
Location ID	ocation ID SP- 124460		SP- 124822
Sample Group	Alley	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Allev	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FD ofField Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FD ofField Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	Surface Soil: Other
Type (circle)	Grab Comp. # subsamples 5	Grab Comp # subsamples 5	Grab Comp. # subsamples
Sample Time	1147	14:07	- 1422
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6 .	6
Field Comments Note if vermiculite is -visible in sampled area	Alley #	Alley # 10% Vermiculite observed: yes or 100	Alley # 1/0 ## Vermiculite observed: vesor no *
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion	Completed by	(i) Z	74 vd 20
(Provide Initials)	Completed by	<u> </u>	QC 0y

10.374 02

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logb	ook No:_	100292	Page No:_	<u> </u>	npling Date:	10/24/03
Address <u>: City of Lil</u>	bb <u>v Ailev</u>		<u>w</u> O <u>w</u>	er/Fenant:	City of Lil	<u>bbv</u>	/ //
Business Name: NA	ι.						
Land Use: (circle) F	Residential	School	Commercial	Mining	(Roadway)	Other ()
Sampling Team: (cir	rcle) CDM	MACT	EC Other	Nar	nes: Danny	Zambrano/D	ave Speilman

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 18366	CS- 18367	CS- 13368
Location ID	SP- 124823	SP- 124824	SP- 124824
Sample Group	Alley	Alley	Aliey
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle) (FS FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FS Cs - 18367 Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise octed)	Surface Soil (Surface Soil Other	Surface Son
Type (circle)	Grab Comp. # subsamples 5	Grab Comp# subsamples3_	Grab Comp# subsamples 3
Sample Time	14:48	15:07	15.12
Top Depth (in.)	0	0	0 .
Bottom Depth (in.)	. 6	6	6
Field Comments Note if vermiculite isvisible in sampled area	Alley # 124 Vermiculite observed: yes or no N.E. CORNER OF ALLEY NEAR CIRASS AND ON ALLEY SURFIXEE	Alley # 125 Vermiculite observed: yes or no	Alley # 125_
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion Completed by D. Z QC by D. QC by D. D. Z	
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CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION • FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbook No:	100292	Page No: 15 San	npling Date: 🔟	<u> 2/24/60</u>
Address <u>: City of Lil</u>	bby Alley	Own	er/Tenant: <u>City of Lib</u>	<u>ıbv</u>	, ,
Business Name: NA	\				
Land Use: (circle) F	Residential School	Commercial	Mining Roadway	Other ()
Sampling Team: (cir	role) (CDM) MACT	EC Other	Names: Danny 1	Zambrano/Dave	Speilman
					-

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 18369		
Location ID	AD-20001		2/
Sample Group	BLANK Alley DI 12-24-W	Alley	Alley
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Alley NA 251227 27	Back yard Front yard Side yard Driveway Other: Alley	Back yard Front yard Side yard Driveway Other: Alley
Category (circle)	FS FD of Eield Blank (but of equipment)	FS FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)
Matrix Type (Surface soil orders other wise noted)	Surface Soil Other SAND	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grab Comp. # subsamples
Sample Time	. 15:30		
Top Depth (in.)	0	0/	0
Bottom Depth (in.)	6	/s	6
Field Comments Note if vermiculite is visible in sampled area	Vermiculite observed: yes or no	Alley # Vermiculite observed: yes or no	Alley # Vermiculite observed: yes or no
	- KUINF	~	
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion	Completed by 2.2	OC by DJ
(Provide Initials)	Completed by 43:	QC 09

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Appendix C Verbal Interview Documentation



.1	Location Coty of Libby Alley Date 02/02/05	
j	Project / Client EPAT Volpe CON: P. Ope	ال تحر
	City of Libby Contoct : Dan There	2
	The second secon	
	Authory P. Spenn, Weathers 320, presently well, light	, le 1
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1	SAP Rev. 1, 2003, Activities; CST Interview.	
The second secon		
1	0932: Speak with Dan There & Libray Public	
f <u>1</u> 1	. works), Complete CSS interview. Complete I	PF
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NO.842 BU#	MF, 3/6

□ Soil samples	collected (Date:/UA)
LIBBY ASBESTOS PROJECT Contaminant Screening Study	c're for the expriser si efforts by CDM)	الأربا وأمره

Contaminant Screening Study
Primary Structure and Property Assessment Information Field Form (Primary IFF)

jeld Logbook No.: 200319	Page No.: 92 Site Visit Date: 02	102/05
Address: Libby City A		
Durant life different than accupant	Phone Number : Contact: Day Thede Phone Number	er 293-1213
Business Name:	bly Public works Dept.	si
Sampling Team: NA		
	(100% of forms):	
•	ed by (2% of forms):	
Data Item	Value Value	Notes
HOUSE ATTRIBUTES		
Property Description	Residential Industrial Commercia City	
Surrounding Land Use	Residentia Industrial Commercial	
	School Mining	
	Other:	
Year of Construction	NA Unknown	
Square Footage	NA	
Construction Material	Wood frame Masonry/Stone	
	Other: NA	
Number of Floors Above Ground	1 2 3 Other: <u>VA</u>	
Number of Rooms Per Fjoor Above	1; 2: 3:	
Ground	Other: NA	
Basement	Yas NA No	
Heating Source	Wood/Coal Electric Propane/Gas	
	Other. NA	
Heat Distribution	Forced air Radiant	
	Other: NA	

No.842 7.5/6

Address:City tilles	City of Lieby Alley	во# <i>NA</i>
Pata (tem	Vajue	Notes
Location of indoor vermiculite (circle all that apply)	Attic Walls Crawl Space None Visual In Living Space: Basement, Ground Floor, Second Floor, Attached Garage Other:	If in living space, provide specific location!
Outdoor Information	☐ Qutdoor \	/isual Inspection Complete:
Location of outdoor vermiculite (circle all that apply)	Driveway Flowerbed Garden Yard Former Flowerbed Former Garden Stockpile None Other VA	
Overall Assessment VP	☐ Reconnaissance (Verbal Interview, Indoor, Or	utdear Inspection)
Are primary source materials present at he property?	Yes No WA	٠
Where are primary source materials ocated?	Inside Outside Both NA	NA applies if no primary source materials are located at the property.
ADDITIONAL INFORMATION (Note any p Time frame of downtown at No vermiculite was by ught Vermiculite was not used City maintenance schedul twice par year. Any fill from the City pit Other planned octivities f	rview with Dan Thede of Lib partial access or sample collection issues) ley contruction: late 1920 Sope thin as a subbase or surfacing to fill in any ruts/holes/ef le for alleys of fix as they need material needed for alleys is brolleys: Trying to quality for caram, downtown revitalized	early 1930's imaterial c. col: elleys are notrolled of the crushed variety r paving funds through
Some of the olleys in the	Puicinity of Mineral Ave. in	conjunction with their
	ue a single call on upiced conce	n from residents in regards

FEB. 1.2005 11:03AM

NO.842~

CSS Primary Structure IFF (continued)

PO 02/02/05

Address: Libra Gity Alley City of Libby Alley

FIELD DIAGRAM OF PROPERTY Identify important features (i.e. drainage, trees, gardens, structures, flowerbeds, utility poles, known underground utilities, suspected Libby amphibole source areas, sample locations, etc). Include north arrow.

NOT TO SCALE

